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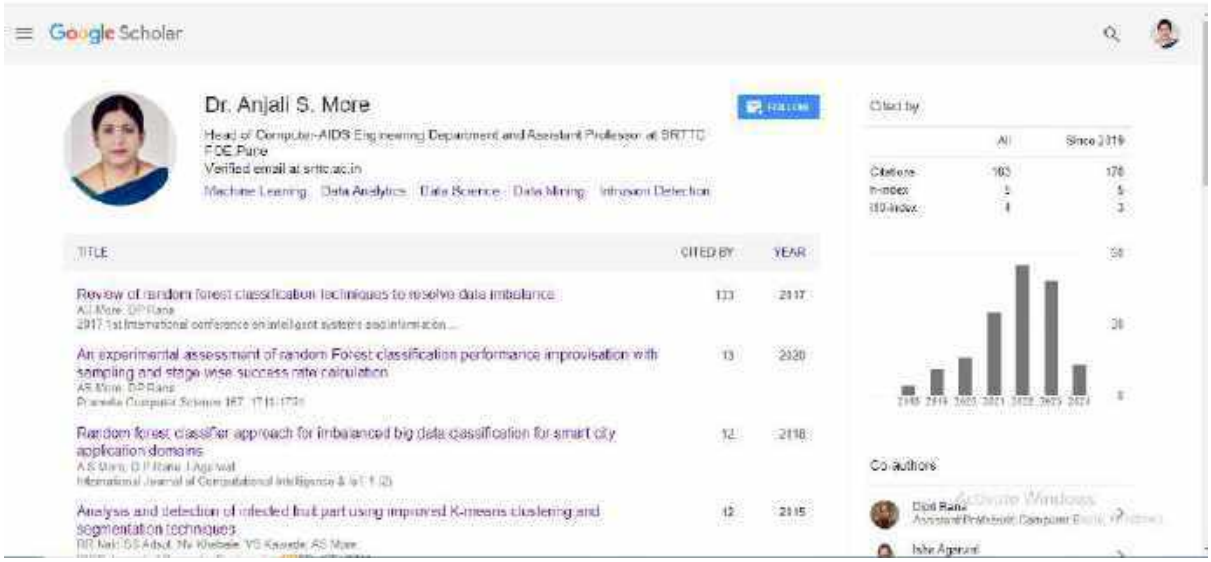

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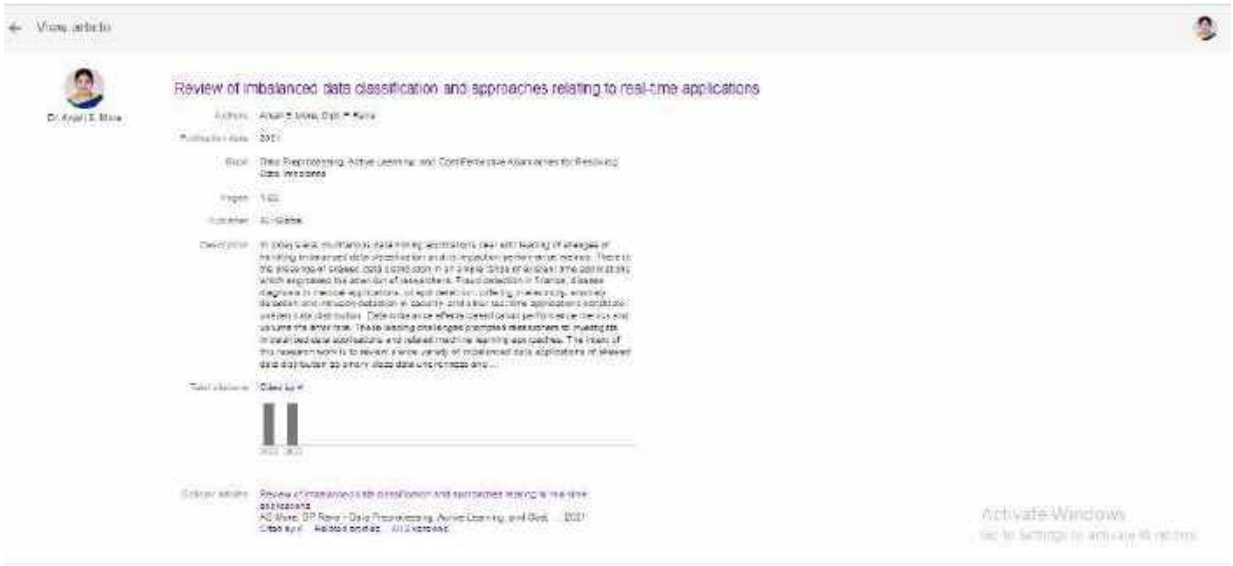

Review of Imbalanced Data Classification and Approaches Relating to Real-Time Applications

Anjali S. More, Dipti P. Rana

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Abstract

In today's era, multifarious data mining applications deal with leading challenges of handling imbalanced data classification and its impact on performance metrics. There is the presence of skewed data distribution in an ample range of existent time applications which engrossed the attention of researchers. Fraud detection in finance, disease diagnosis in medical applications, oil spill detection, pilfering in electricity, anomaly detection and intrusion detection in security, and other real-time applications constitute uneven data distribution. Data imbalance affects classification performance metrics and upturns the error rate. These leading challenges promoted researchers to investigate imbalanced data applications and related machine learning approaches. The intent of this research work is to review a wide variety of imbalanced data applications of skewed data distribution as binary class data unevenness and multiclass data disproportion, the problem encountered, the variety of approaches to resolve the data imbalance, and possible open research areas.

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Anjali S. More

Review of Imbalanced Data Classification and Approaches Relating to Real-Time Applications

Authors: Anjali S More, Dipti P Rana

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Chapter 1
Review of Imbalanced Data Classification and Approaches Relating to Real-Time Applications

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ABSTRACT

In today's era, multifarious data mining applications deal with leading challenges of handling imbalanced data classification and its impact on performance metrics. There is the presence of skewed data distribution in an ample range of existent time applications which engrossed the attention of researchers. Fraud detection in finance, disease diagnosis in medical applications, oil spill detection, pilfering in electricity, anomaly detection and intrusion detection in security, and other real-time applications constitute uneven data distribution. Data imbalance affects classification performance metrics and upturns the error rate. These leading challenges prompted researchers to investigate imbalanced data applications and related machine learning approaches. The intent of this research work is to review a wide variety of imbalanced data applications of skewed data distribution as binary class data unevenness and multiclass data disproportion, the problem encounters, the variety of approaches to resolve the data imbalance, and possible open research areas.

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INTRODUCTION

Data cataloging into specific classes is one of the foremost techniques in the domain of machine learning and mining with the heuristics of balanced dataset i.e. the data is equally distributed among the classes. This heuristic is not true in the existent world applications and the majority of the related applications are having imbalanced dataset where data is skewed towards one class or more than one classes. The imbalanced nature of data is having their own importance, one cannot neglect them. Thus, many researchers are motivated to deal with imbalanced classification for real-life applications. There is an incessant growth of instances of data availability in many application eras such as finance, health care, computer network system, security, internet of things, etc. where it is very much essential to advance the primary perceptive of knowledge discovery and data analysis to take the critical decision.

Nowadays, though there is existence of data discovery techniques, imbalanced data applications relating to real-life scenarios have shown the great attraction to the researchers to focus on imbalanced applications and review the problems occurred due to data unevenness. The individuals working in industry as well as academia gets attracted towards diverted data applications as review in the survey section by Alberto Fernández et al. (2009).

Several realistic application areas deal with the handling of uneven data representation, the minority instance class gets ignored due to the majority instance class. Unequal data distribution leans performance metrics towards the majority class. The review study in this research focuses on the most important application categories of imbalanced data distribution as binary class imbalance and multiclass data imbalance. To deal with the promising issues arising from class imbalance this study presents a review of imbalanced data applications, imbalanced data categories, problems encountered due to this characteristic, and the methodologies to deal with distorted data relating to real-life applications.

BACKGROUND

Classification is the most popular technique to correctly classify an instance with unknown class. Many real-world data sets show evidence of unequal class distributions in which maximum data samples are belonging to one of the larger class and far fewer data instances are falling into minority class. In case of medical diagnosis example, which consist of the cases that relates to diagnosis for a rare disease. For the referred example, only 2% of the patients are positive diagnosis and 98% diagnosis as negative. Dealing with such imbalanced datasets and related classification generates the need of machine learning algorithms. In current time the data diverted applications are relating to binary as well as multiclass data imbalance. In both category of imbalanced class either of one class having maximum instance and which diverts the performance towards majority class, i.e. performance is leaned towards majority class. The traditional classifiers reveal accurate forecast for the majority instance class and diversify the performance in case of minority data sample class. The cost of misclassification an imbalanced class can be harmful for the real world application like disease diagnostics. Thus, in today's era, Stefan Lessmann (2014) and Rebeen A. H., Masashi K. & Jens L (2020) show imbalanced data applications have received considerable attention from the research community to further boost their performance by numerous machine learning algorithms. Lars W. Jochumsen et al. (2016), Nahit Emanet et al. (2014), explained in the study that there are diverse approaches to tackle the trouble of extremely imbalanced data applications. In particular, the study deals with the description of preprocessing, cost-sensitive learning, Support Vector

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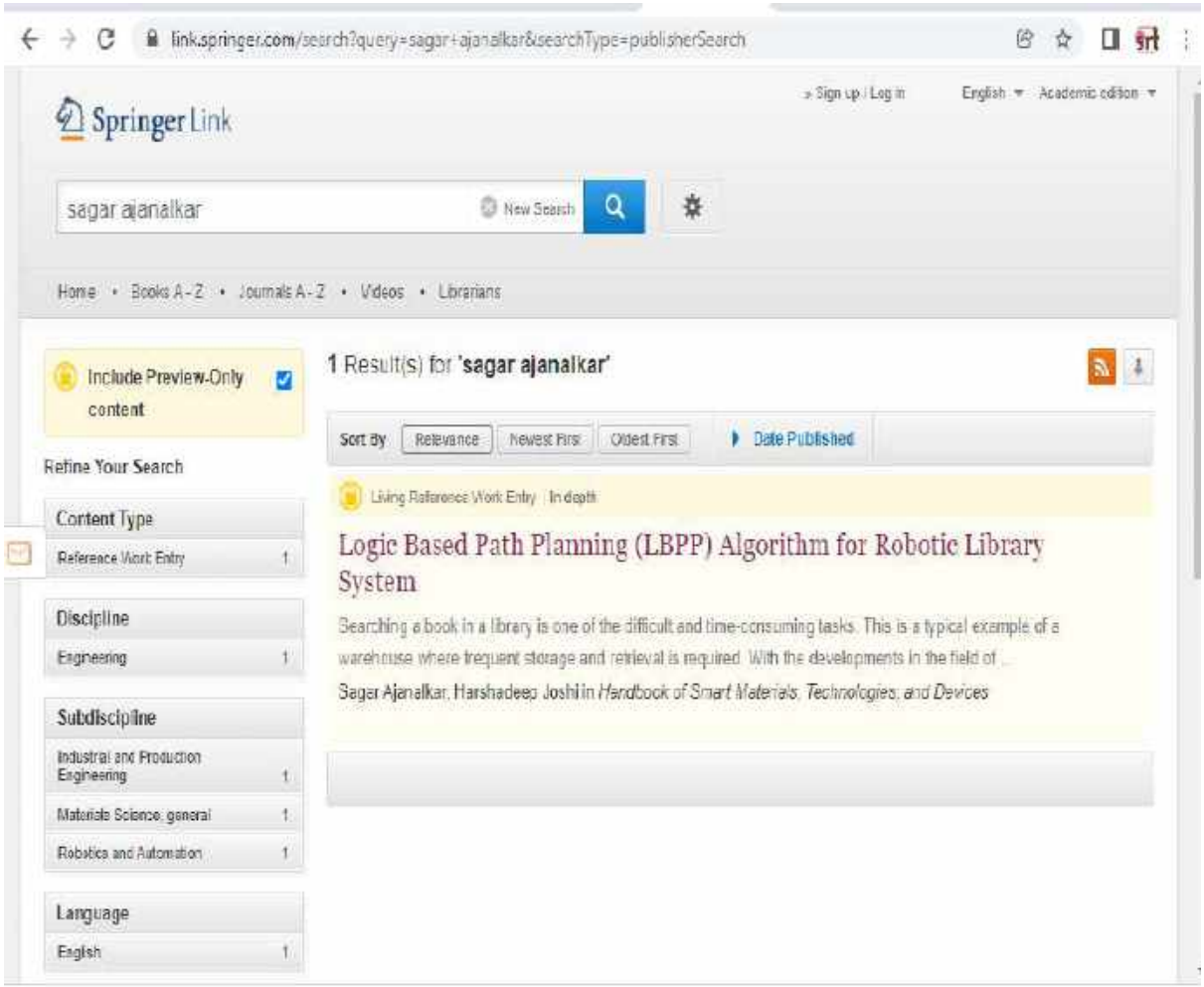
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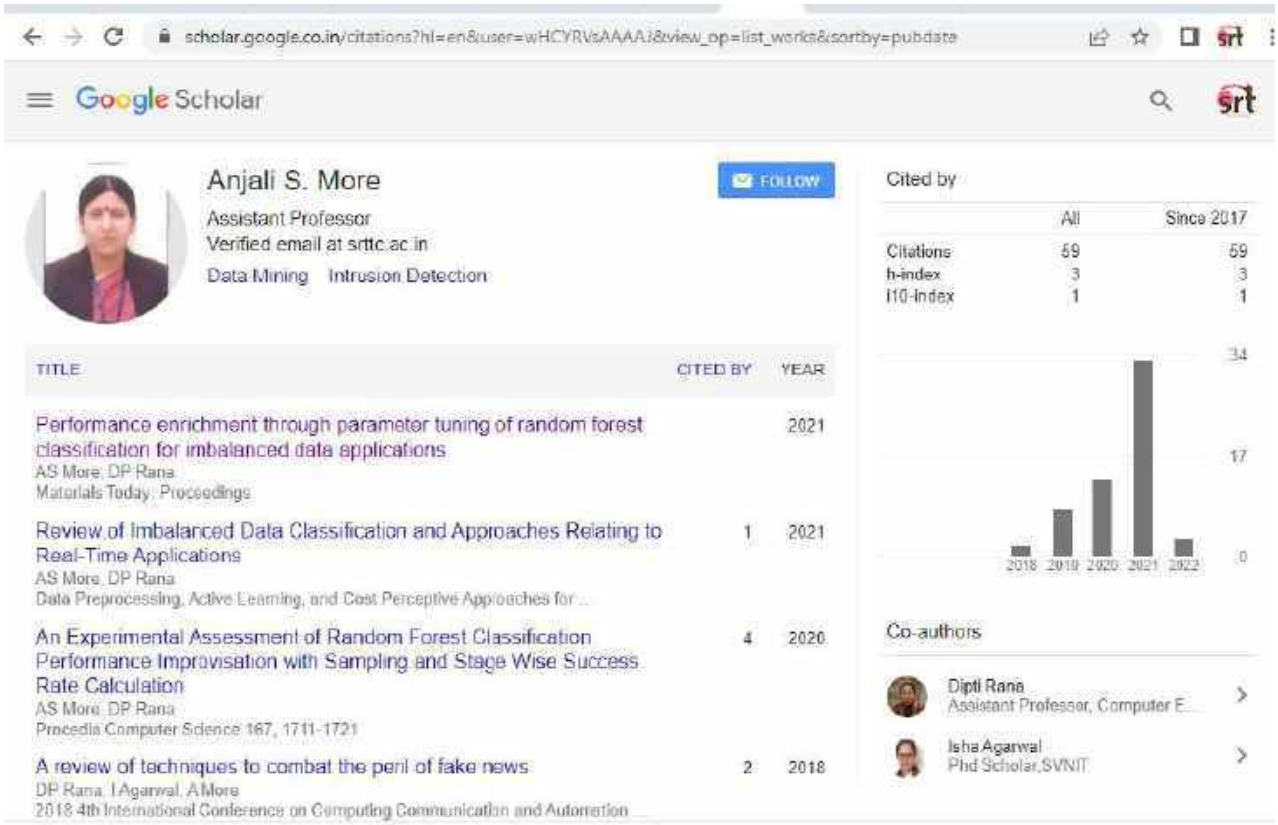
Abstract

Searching a book in a library is one of the difficult and time-consuming tasks. This is a typical example of a warehouse where frequent storage and retrieval is required. With the developments in the field of Information Technology, the graphical representation of the storage of library can help the users to locate the book faster and provides a digital canvas with digital search options.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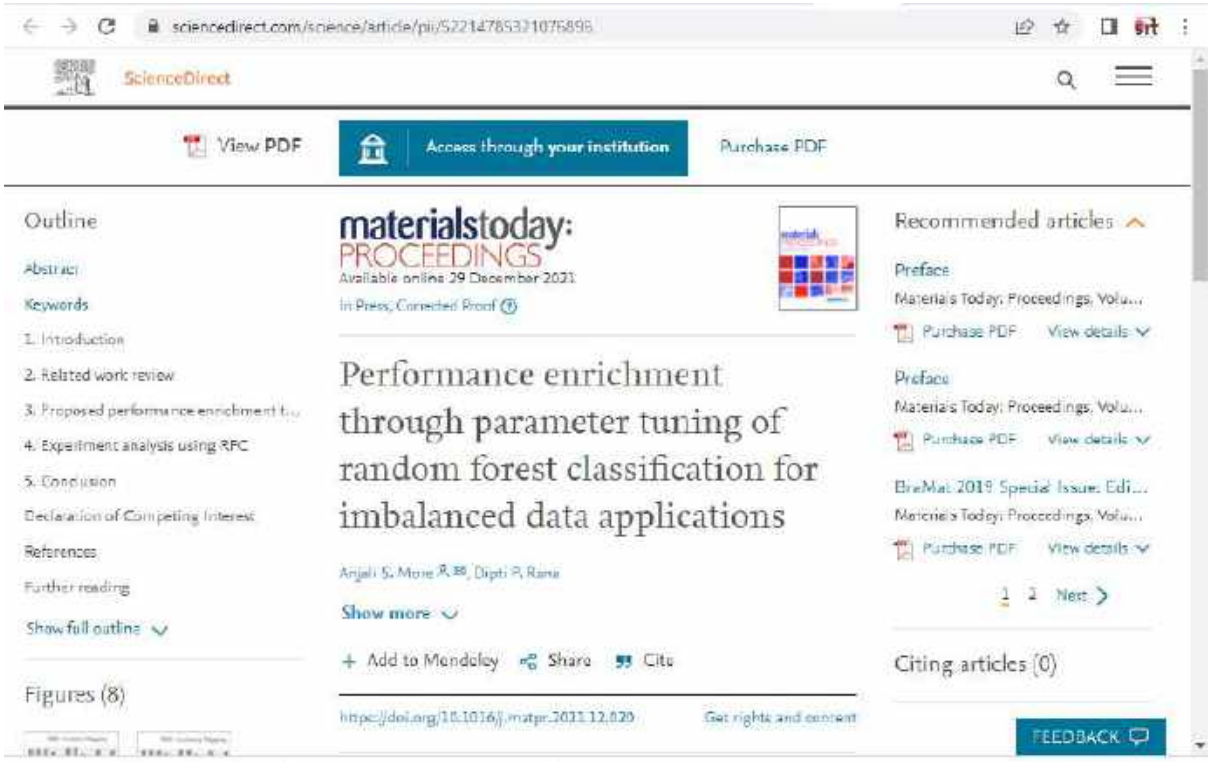
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2. Unit - Chapter
3. Difficulty level
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Item Bank ID Item Bank IT for Teacher

Difficulty Level (Low-1,Medium-2,High -3)	No. of Options(2-6)	Question Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4	Correct Option
2	4	गूगल कॅलेंडरचा उपयोग कशासाठी केला जातो ?	फॉर्ममधून डेटा गोळा करणे	इतरांना संदेश पाठवणे	इतरांबरोबर वेळापत्रक शेअर करणे	इतरांबरोबर डॉक्युमेंट शेअर करणे	3
2	4	कोणत्या डिव्हाइसवर तुमचे Google कॅलेंडर पाहता येते?	स्मार्टफोन	लॅपटॉप	टॅबलेट	दिलेल्या सर्व	4
2	4	तुम्ही 10 स्लाइडचे एक प्रेझेन्टेशन तयार केले आहे. तुम्हाला सर्व स्लाईड्सवर ऑडिओ प्ले करायचा असल्यास कोणत्या ऑडिओ पर्यायावर तुम्ही क्लिक कराल?	Hide During Show	Loop Until Stopped	Rewind After Playing	None of the Above	4

Figure 1. Question with 4 Options

2. Avoid options stating “None of the Above” and “All of the Above”

Input Language Marathi
Item Bank ID Item Bank IT for Teacher

Difficulty Level (Low-1,Medium-2,High -3)	No. of Options(2-6)	Question Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4	Correct Option
2	4	गूगल कॅलेंडरचा उपयोग कशासाठी केला जातो ?	फॉर्ममधून डेटा गोळा करणे	इतरांना संदेश पाठवणे	इतरांबरोबर वेळापत्रक शेअर करणे	इतरांबरोबर डॉक्युमेंट शेअर करणे	3
2	4	कोणत्या डिव्हाइसवर तुमचे Google कॅलेंडर पाहता येते?	स्मार्टफोन	लॅपटॉप	टॅबलेट	दिलेल्या सर्व	4
2	4	तुम्ही 10 स्लाइडचे एक प्रेझेन्टेशन तयार केले आहे. तुम्हाला सर्व स्लाईड्सवर ऑडिओ प्ले करायचा असल्यास कोणत्या ऑडिओ पर्यायावर तुम्ही क्लिक कराल?	Hide During Show	Loop Until Stopped	Rewind After Playing	None of the Above ✖	4

Figure 2. Avoid these Option

3. The questions should follow principle of “Conceptual Distraction”. It means all four options must look correct unless the concept is absolutely clear.

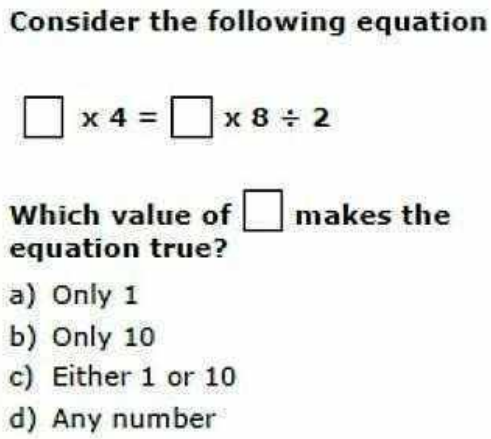


Figure 3. Example for Conceptual Distractor Options in Question

4. A proper weightage to the topics and content of the syllabus on whom questions are to be made is to be created first. This will be reference for generation of question bank for the said subject or course generally it goes like, Subject-Unit-Chapter-Topic.

Following are the details present in the import template.

1. Difficulty Level
2. Author – Teachers are requested to put BCUD Id here
3. No. of Options in the Questions – we will have only 4 options (A B C D)
4. Question text (without any special character, image, formula, subscript or superscript as they are to be created in image form as per guidelines given below)
5. Option wise Text
6. Correct Option No.

Input Language Marathi
Item Bank ID **Item Bank** IT for Teacher

Difficulty Level (Low-1,Medium-2,High -3)	No. of Options(2-6)	Question Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4	Correct Option
2	4	गूगल कॅलेंडरचा उपयोग कशासाठी केला जातो ?	फॉर्ममधून डेटा गोळा करणे	इतरांना संदेश पाठवणे	इतरांबरोबर वेळापत्रक शेअर करणे	इतरांबरोबर डॉक्युमेंट शेअर करणे	3
2	4	कोणत्या डिव्हाइसवर तुमचे Google कॅलेंडर पाहता येते?	स्मार्टफोन	लॅपटॉप	टॅबलेट	दिलेल्या सर्व	4
2	4	तुम्ही 10 स्लाइडचे एक प्रेझेन्टेशन तयार केले आहे. तुम्हाला सर्व स्लाईड्सवर ऑडिओ प्ले करायचा असल्यास कोणत्या ऑडिओ पर्यायावर तुम्ही क्लिक कराल?	Hide During Show	Loop Until Stopped	Rewind After Playing	None of the Above	4

Figure 5. Bulk Question Import Template

Technical Guidelines:

The question sample attached is of the question type Multiple Choice (4 options) Single Correct answer , wherein the questions can be in the form of Images or text. The samples as well as the templates provided will guide you in creating the question bank. Also some of the basic instructions are given below; please follow them while creating the question bank.

Some basic

Instructions- For

textual type questions:

1. Type the questions in the excel file directly. Copy paste from other file is also possible, but utmost care should be taken to ensure the format of the text as numbers and date formatting does not change after copy paste.
2. Use separate excel (.xlsx) files for different topics.

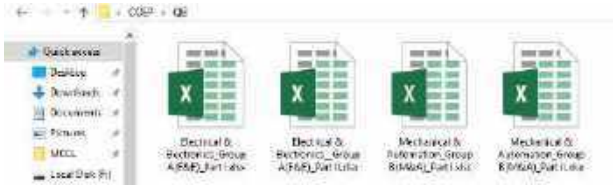
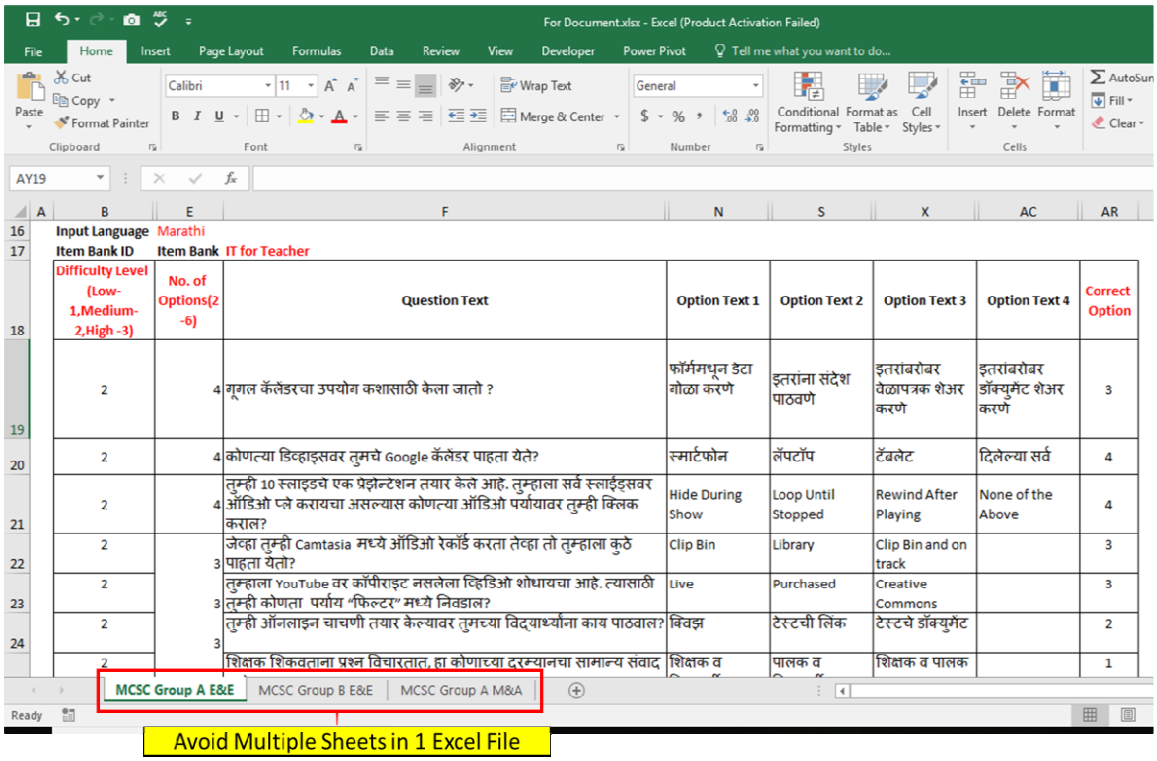


Figure 6. Topic wise Question Bank excels files (.xlsx)

3. Do not create multiple sheets in a single Excel file.



Input Language	Marathi							
Item Bank ID	Item Bank	IT for Teacher						
Difficulty Level (Low-1,Medium-2,High -3)	No. of Options(2-6)	Question Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4	Correct Option	
2	4	गूगल कॅलेंडरचा उपयोग कशासाठी केला जातो ?	फॉर्ममधून डेटा गोळा करणे	इतरांना संदेश पाठवणे	इतरांबरोबर वेळापत्रक शेअर करणे	इतरांबरोबर डॉक्युमेंट शेअर करणे	3	
2	4	कोणत्या डिव्हाइसवर तुमचे Google कॅलेंडर पाहता येते?	स्मार्टफोन	लॅपटॉप	टॅबलेट	दिलेल्या सर्व	4	
2	4	तुम्ही 10 स्लाइडचे एक प्रेझेन्टेशन तयार केले आहे. तुम्हाला सर्व स्लाईड्सवर ऑडिओ प्ले करायचा असल्यास कोणत्या ऑडिओ पर्यायावर तुम्ही क्लिक कराल?	Hide During Show	Loop Until Stopped	Rewind After Playing	None of the Above	4	
2	3	जेव्हा तुम्ही Camtasia मध्ये ऑडिओ रेकॉर्ड करता तेव्हा तो तुम्हाला कुठे पाहता येतो?	Clip Bin	Library	Clip Bin and on track		3	
2	3	तुम्हाला YouTube वर कॉपीराइट नसलेला व्हिडिओ शोधायचा आहे. त्यासाठी तुम्ही कोणता पर्याय "फिल्टर" मध्ये निवडाल?	Live	Purchased	Creative Commons		3	
2	3	तुम्ही ऑनलाइन चाचणी तयार केल्यावर तुमच्या विद्यार्थ्यांना काय पाठवाल?	क्विझ	टेस्टची लिंक	टेस्टचे डॉक्युमेंट		2	
2		शिक्षक शिकवताना प्रश्न विचारतात, हा कोणाच्या दरम्यानचा सामान्य संवाद	शिक्षक व	पालक व	शिक्षक व पालक		1	

4. Do not add special characters, images, symbols, formula, subscript or superscript in the Question text or Option text.

Figure 8. Avoid in Question/Option Text

5. If you come across such type of questions / options then, please add those in Picture Type questions text or option text header.

6. Questions where underlined or **bold** or *italics* text is present should be included in Picture Type questions only.

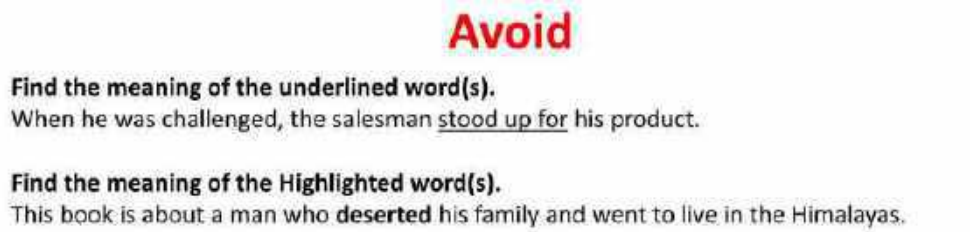
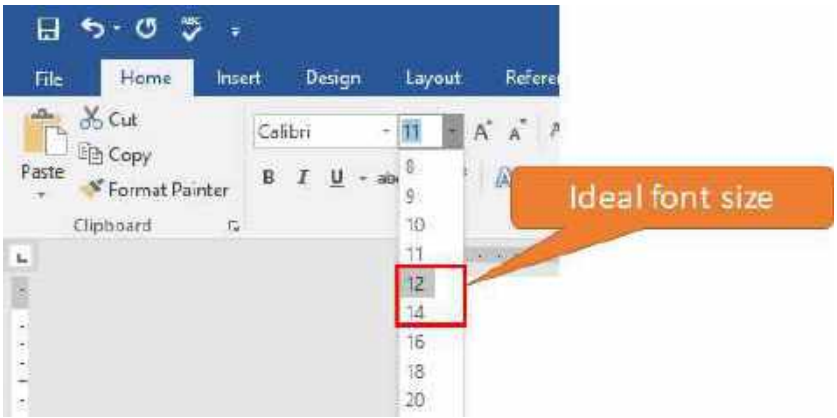


Figure 9. Avoid Bold/Underline words in Question Text

7. As we provide multilingual support for following languages: English, Hindi, Marathi the questions should be provided only in **Unicode** font only. (If bilingual questions bank is to be created, please contact SPPU for further assistance)

For Image type questions:

1. Create the complete question bank in MS-Word only for the questions which have figures, diagrams, chemical equations, special symbols or characters, subscript or superscript as a part of the question or Option. Font size should be minimum 12 and



maximum 14.

Figure 10. Font Size for Question & Option Text

2. Create images of the word file by Print Screen option, crop them with the help

of any image editor utility and save the files in .jpg format as per the samples attached. E.g. **q1.jpg**, **q1o1.jpg**, **q1o2.jpg**, **q1o3.jpg**, **q1o4.jpg**.

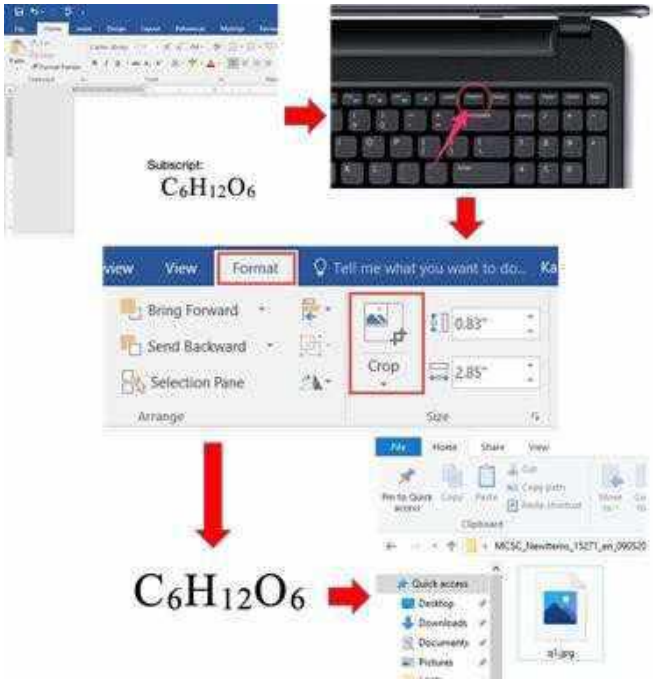


Figure 11. Use Print Screen to create Image based question

3. Please ensure the image resolutions should be not more than: horizontal – 700 pixels: vertical – 300 pixels

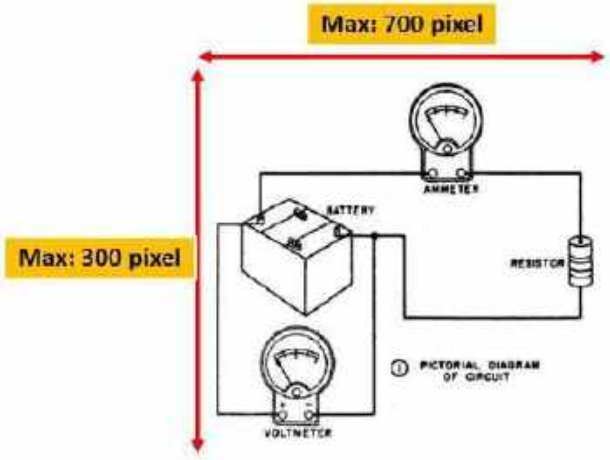


Figure 12. Image Dimensions for Question/Option

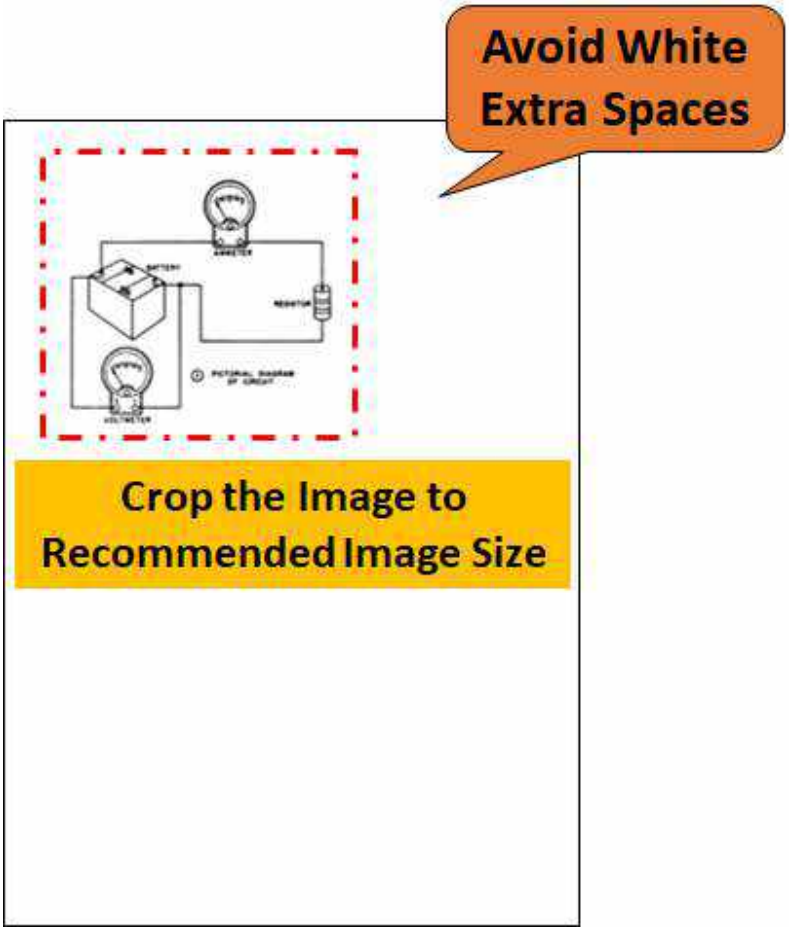


Figure 13. Tips for Cropping Image

4. You can then write the name of the image in excel in the image column(the image names should be in small case and avoid any kind of special characters and spaces in the image names)

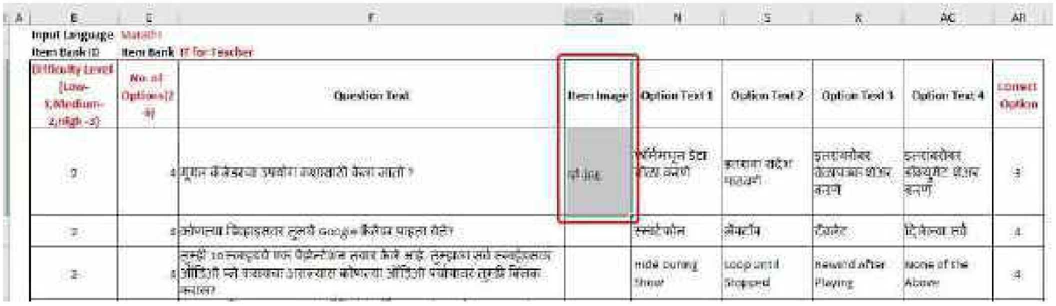


Figure 14. Image name in Item Image Column

5. Create separate folders for each topic or subject.
6. To reduce the size of the images you can use any of the freely available image compression software. E.g. IrfanView

OES Template Validator:

Once the excel file is ready in the prescribed OES format. The file can be validated using OES
- MCSC Checker -v 1.2. Following is the step to

follow: Step 1: Open the file **"OES - MCSC Checker -v 1.2.xlsm"**

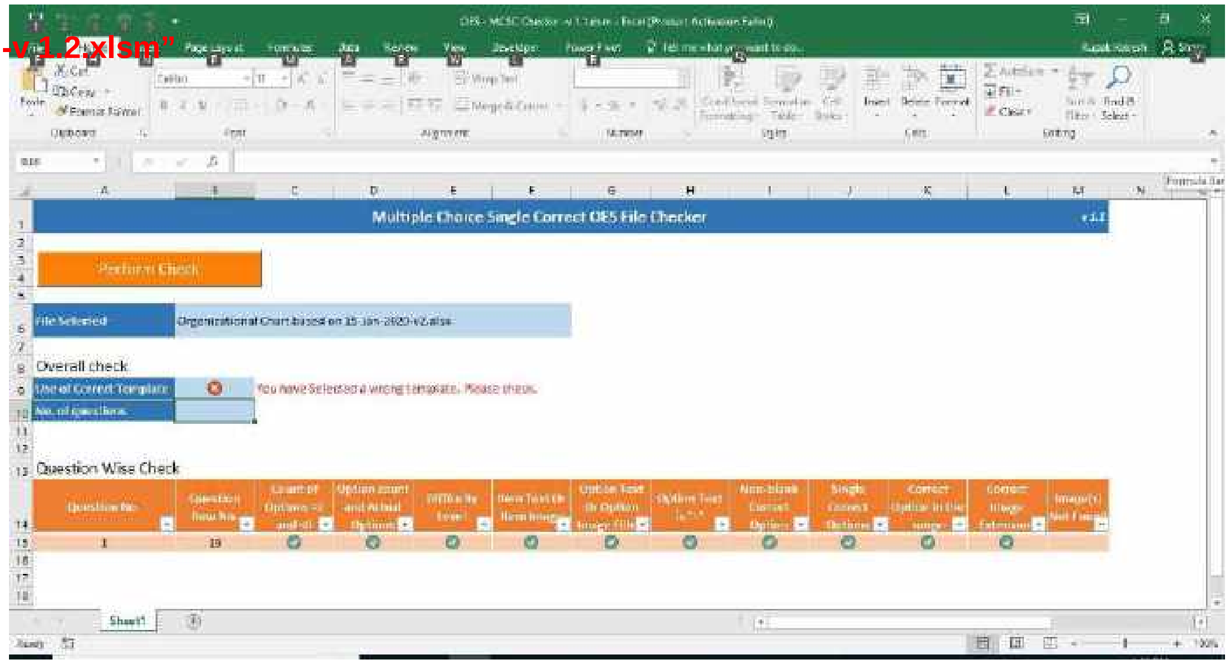


Figure 15. OES Excel File Validator

Step 2: Click on “Perform Check” button.

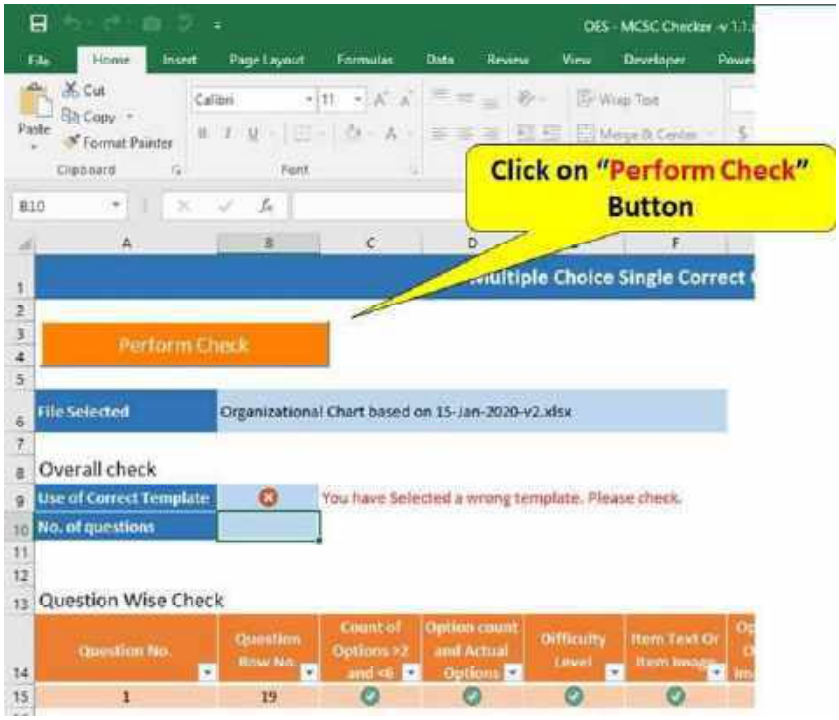


Figure 16. Step 2 - Template Validator

Step 3: Browse & Select the Question excel file prepared by you.

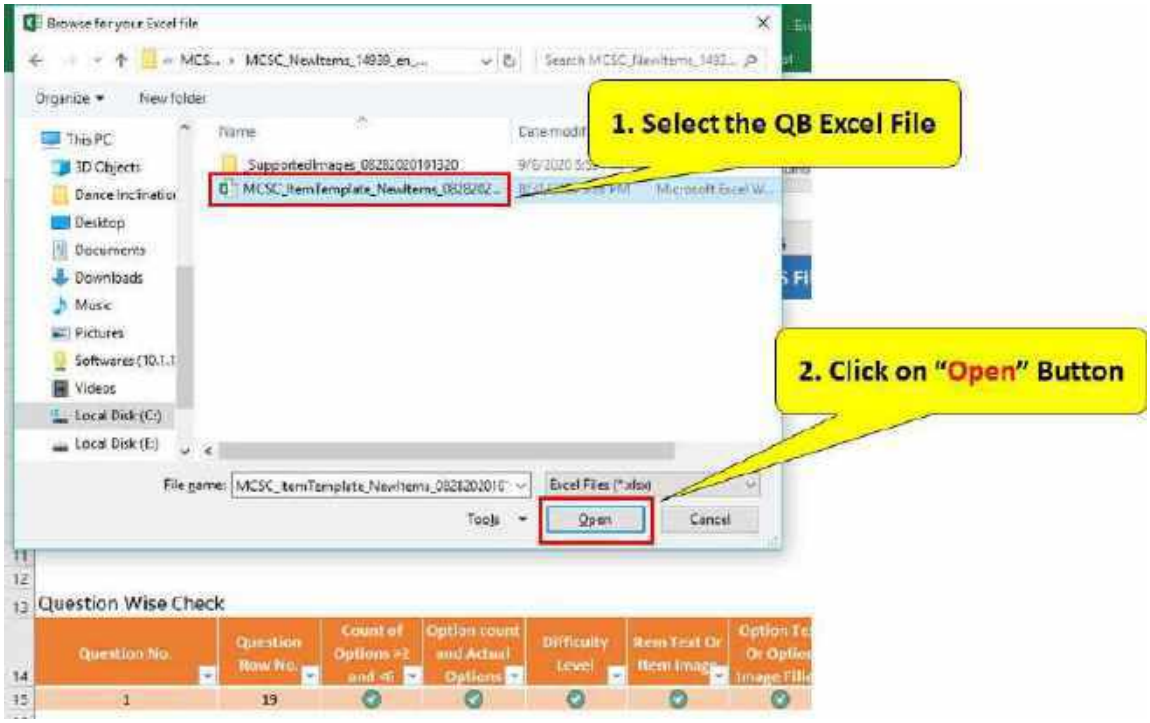


Figure 17. Step 3 - Browse & Select the QB Excel

Step 4: Read the Feedback. “x” indicates, the issue in the question number.

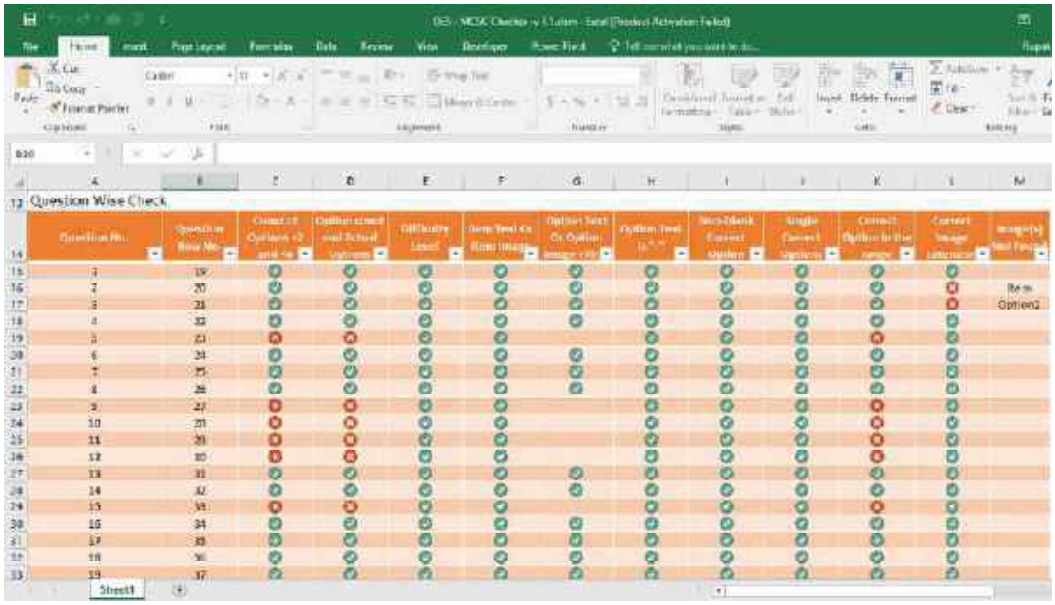


Figure 18. Step 4 - Check the Issues

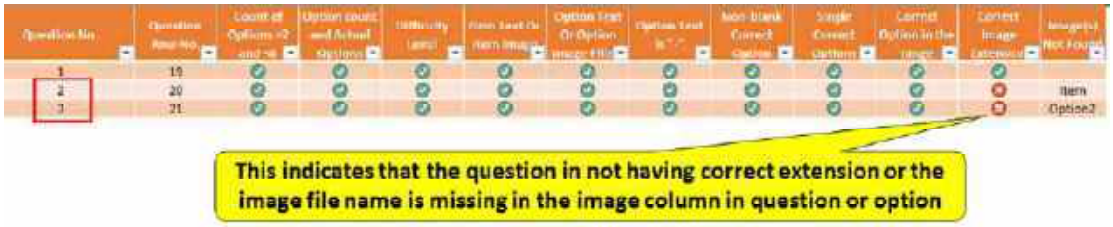


Figure 19. Step 4 - Feedback 1

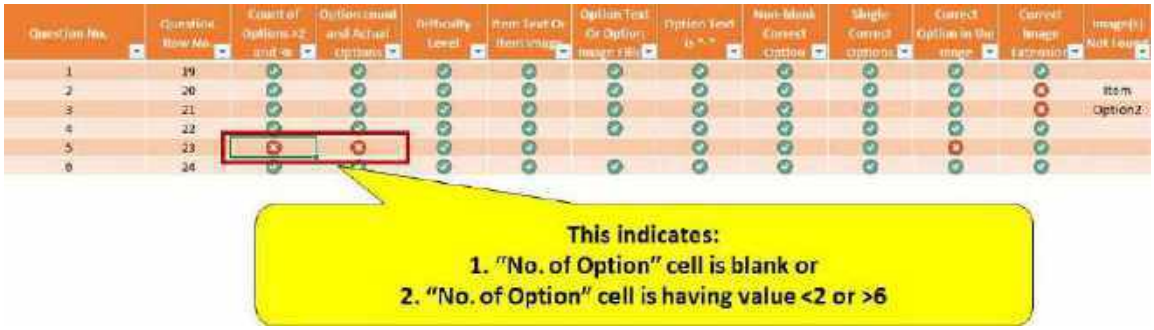
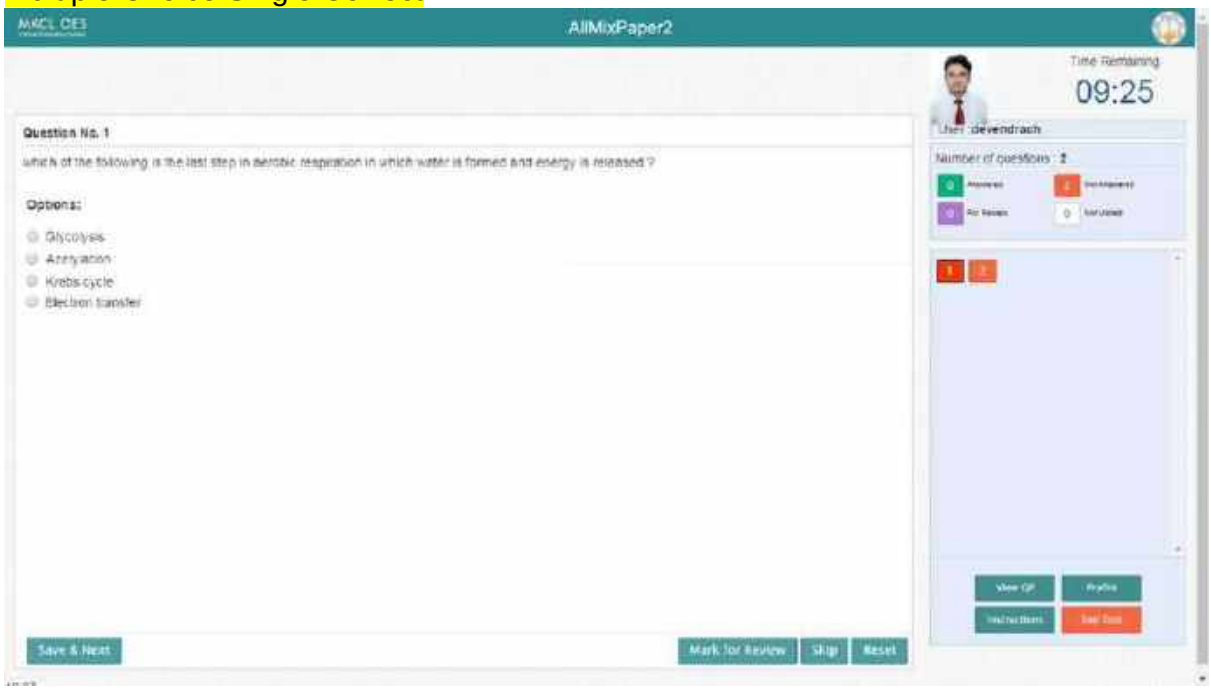


Figure 20. Step 4 - Feedback 2

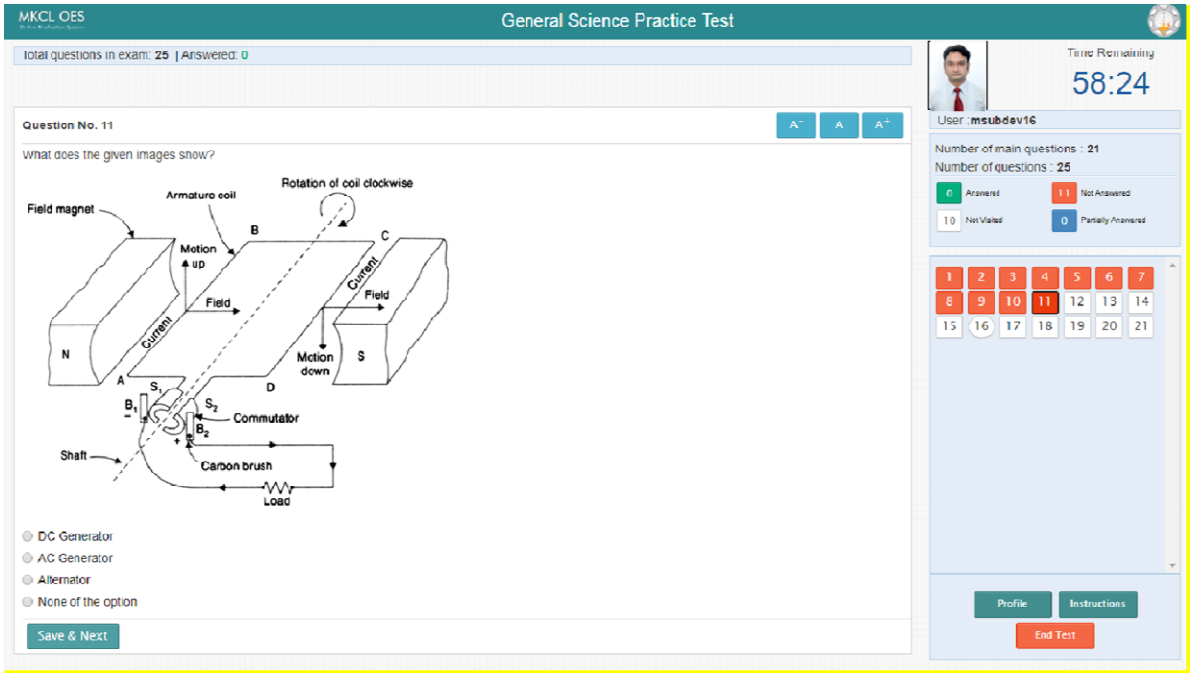
So make the necessary changes in Original excel file as per the feedback provided by the OES Template Validator. Once all the questions are validated the excel file is ready to be uploaded in OES.

Question type wise Sample question screens.

Multiple Choice Single Correct



Multiple Choice Single Correct with image in question



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9921897835

HAS ACTIVELY PARTICIPATED IN THE WEBINAR ON "**ARTIFICIAL INTELLIGENCE WITH DEEP LEARNING**" ORGANIZED BY DEPARTMENT OF **COMPUTER ENGINEERING, SUMAN RAMESH TULSIANI TECHNICAL CAMPUS, FACULTY OF ENGINEERING, KHAMSHET, PUNE** IN ASSOCIATION WITH **PANTECH E LEARNING** ON **02-10-2020**

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DIRECTOR PANTECH E LEARNING	PRINCIPAL	HOD	CO-ORDINATOR

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This is to certify that Mr./Mrs./Ms. **Prof. Anjali S. More** has participated in online faculty development program on **"Google Meet"** and successfully completed the online quiz. This event is organized by Suman Ramesh Tulsiani Technical Campus-Faculty of Engineering, Khamshet on **24/09/2020**.

Prof. D. V. Kudande & Prof. B. B. Shah
Faculty Coordinator

Prof. (Dr.) J. B. Sankpal
Principal
SRTTC-FoE, Khamshet

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This is to certify that Prof. Anjali Sanjivanrao More

of Suman Ramesh Tulsiani Technical Campus FOE *has participated in*

"Web-Hack & HR Conclave: Recruitment and Technology 4.0" *held on* *28th-29th September, 2020.*

Prof. Dheerendra Mathur
TEQIP Coordinator
RTU, Kota

Dr. R.K. Pachar
Principal
SKIT, Jaipur

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THIS IS TO CERTIFY THAT

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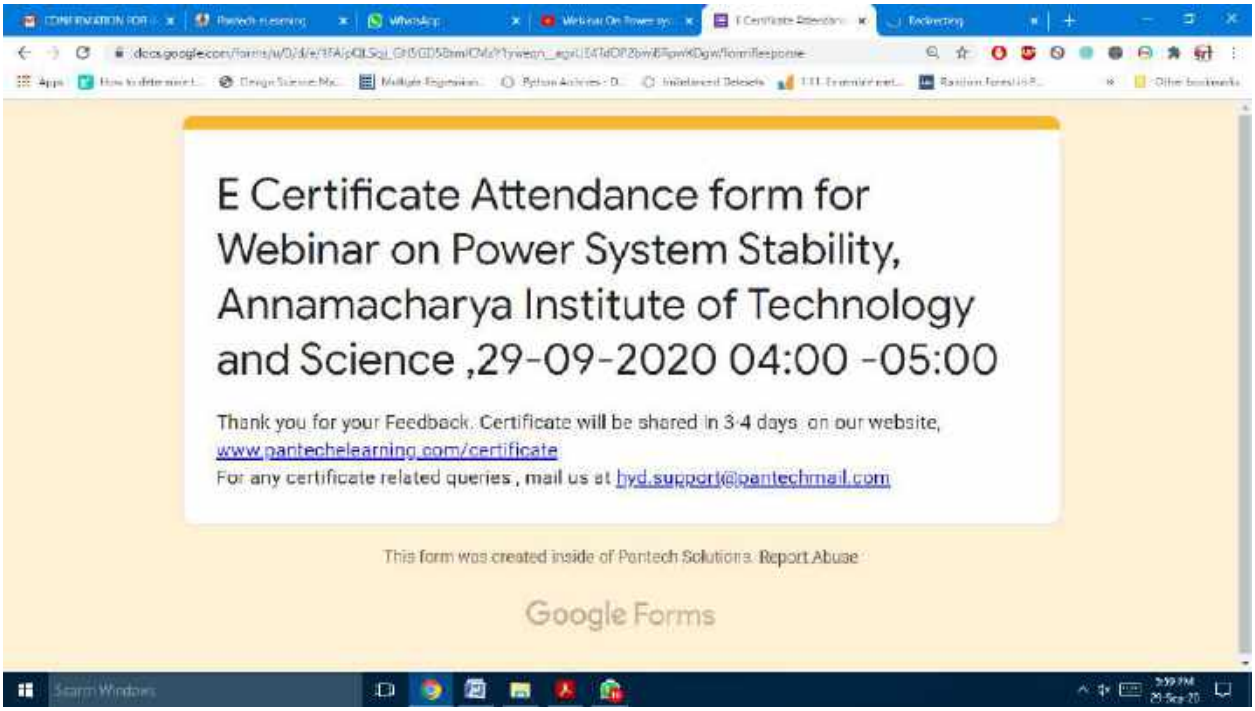
SUMAN RAMESH TULSIANI TECHNICAL CAMPUS FOE

HAS ACTIVELY PARTICIPATED IN THE WEBINAR ON "**POWER SYSTEM STABILITY**" ORGANIZED BY DEPARTMENT OF **EEE, ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, HYDERABAD** IN ASSOCIATION WITH **PANTECH E LEARNING** ON **29-09-2020**

SRINIVASAN N DIRECTOR PANTECH E LEARNING	**U.NARENDER** HOD-AITS	**M.CHANDRA SHEKHAR** ASSISTANT PROFESSOR AITS	**J.SHANKAR** ASSISTANT PROFESSOR AITS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Thank you for your Feedback. Certificate will be shared in 3-4 days on our website,
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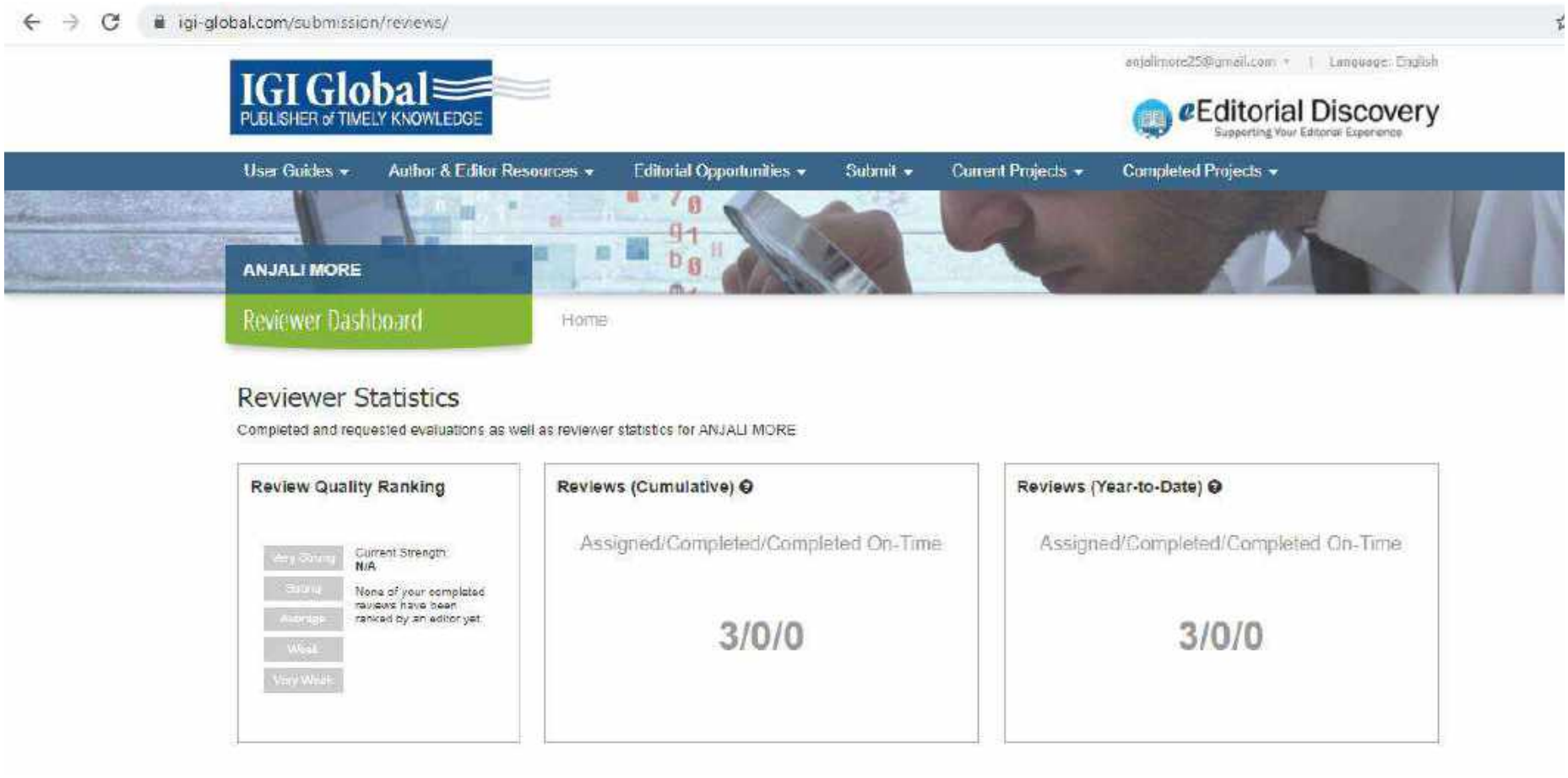
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Editorial Opportunities
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Current Projects
Completed Projects
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Reviewer Dashboard
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Reviewer Statistics
Completed and requested evaluations as well as reviewer statistics for ANJALI MORE
Review Quality Ranking
Very Strong
Strong
Average
Weak
Very Weak
Current Strength:
N/A
None of your completed reviews have been ranked by an editor yet.
Reviews (Cumulative)
Assigned/Completed/Completed On-Time
3/0/0
Reviews (Year-to-Date)
Assigned/Completed/Completed On-Time
3/0/0

IET The Institution of Engineering and Technology

PCCOE

CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Prof. Anjali S. More

FOR ATTENDING AN E-WORKSHOP ON
" HOW TO CATCH CLONED/FAKE/PREDATORY JOURNALS IN ACADEMICS "
ORGANIZED PCCOE IET ON CAMPUS, PUNE
HELD ON 22nd FEBRUARY 2021.

Dr. A. D. Thakare
Secretary,
IET Pune Local Network

Dr. K. Rajeswari
HOD,
Computer Department

Savitribai Phule Pune University

Formerly University Of Pune

Phone : 020-25621445
Fax : 020-25601206
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CO-ORDINATION SECTION
Ganeshkhind, Pune - 411 007
Maharashtra (INDIA)

Second half of the year,2020

21/02/2021 07:00

21021601140

More Anjali Sanjivanrao

Suman Ramesh Tulsiyani Charitable Trust Suman Ramesh Tulsiani Technical Campus Faculty of Engineering Addr: Survey No 81,82,91,92,94,97,99,101,102,106,At Post Mauje Khamshet,Taluka Maval, District Pune 410405 Ta: Mawal Dist: Pune

Mobile No. : 9921897835 Email : anjalimore1980@rediff.com

Sir/ Madam,

1. The University Authorities have been pleased to appoint you for the Paper Setter and Examiner, in the subject of :-

Post Name	Examination	Paper / Subject	Chairman	Important Dates
Paper Setter & Examiner **Appt NO.** 20221162	BE 2012 (Endsem) (Theory) BOS:Computer Engineering	Paper-Computer Network Design and Modeling (410444B) , (sem-I)	**Mehetre Deepak Chandrakantrao** K.J. Educational Institute K J College of Engineering & Management Research Addr: K J Educational Institute K J College of Engineering & Management Research Addr: Serve No 25 & 27 Kondhawa - Saswad Road Pune 411048(excluding Corporation Area) Dist: Pune Ta: Haweli(excluding Corporation Area) Dist: Pune **9404348720**	E-Mode Manuscript Submission: 22th Feb. 2021

2. The appointment is based on certain assumptions and subject to the respective provisions of the Maharashtra Public Universities Act 2016 and Statues/Ordinances, Rules and Regulations framed thereunder.
3. It shall be obligatory on every faculty member of affiliated colleges to render necessary assistance and service in respect of examinations of the University.
4. As per the decision taken by the statutory bodies, there will be 50 multiple choice questions of one mark each on for candidates appearing for the online examination
   (a) These question banks shall be prepared on 100 percent syllabus for second year to final year programs.
   (b) These question banks shall be prepared on 70 percent syllabus for the first year program (starting from the first topic serially).
5. Question bank for the final year (UG/PG) program shall consist of 2 parts A and B
   (i) 'A' consists of 50 multiple choice questions and (ii) 'B' consists 4 descriptive type questions.
   (a) Paper setters are requested to discuss with the concerned Chairman of the paper setting panel about the division of work for the preparation of the question bank
6. **Method of uploading question papers:**
   i. Each multiple choice question bank (200 questions minimum) and descriptive type questions bank (50 questions) shall be uploaded through to the designated web-portal through the BCUD Login of the Chairman of the paper setting panel on qpg.unipune.ac.in It is mandatory to prepare question bank in prescribed format made available to paper setters through the faculty BCUD login.
   ii. For the subjects under the BOS-Mathematics, each multiple choice question will carry two marks. Each descriptive type question will carry five marks.
   iii.Model answers for descriptive questions (restricted up to 30 words for each question) shall be provided by the panel of paper setters appointed for the final year program in template provided. Saperate remuneration as prevailing rules and regulations shall be paid to paper setters for providing model answers for the descriptive type questions included in question paper bank.

2/22/2021 10:24:58 AM

I seek your co-operation.
Thanking You

Yours,
For Director,Board of Examination and Evaluation

To,
The Principal/Directors,

You are requested to relieve the teachers for paper setting. Also requested to communicate names of the teacher/s who remain absent for the work of paper setting, the said information is required for submission to the University Authorities for necessary action under the provisions of section 48(4) of the Maharashtra Public Universityes Act,2016.

For early payment of examination remuneration work through ECS, you are requested to update your BCUD online teacher profile with Bank Account details. For details contact 020-25601388

Paper setter payment will done through automated NEFT/RTGS service for which please update your pancard ,bank account details and bank IFSC code in your teacher profile.`

Course Code	Course Name	Subject Code	Subject Name
24813	M.E. (2013 PAT.)	604102	WIRELESS & MOBILE TECHNOLOGIES
25013	M. COM. (2013)	215	BANKING LAW & PRACTICES
70115	F.E. (2015 COURSE) EXAMINATION	102006	ENGINEERING GRAPHICS I

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OF APPRECIATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Prof. Anjali Sanjivanrao More

For Attending e Workshop on "Machine Learning in Healthcare "
organized by
Department of Computer Engineering , Computer Society of India Student Chapter
on 12/03/2021.

Prof. Sonali Patil
CSI-Coordinator

Prof. Anjali Dalvi
HoD, Computer Department

Prof. (Dr.) J. B. Sankpal
Principal

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Department of Computer Engineering

CERTIFICATE OF PARTICIPATION

This is to Certify that Mr./Ms./Mrs. ***Prof. Anjali S. More*** *has participated in* ***"Webinar on Research Methodology"*** *organized by Department of Computer Engineering, Suman Ramesh Tulsiani Technical Campus-Faculty of Engineering on* ***2/17/2021.***

Certificate Id : QLKGZS-CE000039

Prof. Vidya Shitole	Prof. Anjali Dalvi	Prof. (Dr.) J. B. Sankpal
Event Coordinator	HoD, Computer Engg.	Principal

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during 13th -14th March 2021 (Level-I) and 19th -21st March 2021 (Level-II)

organized by the School of Advanced Sciences (SAS), VIT-AP University.

Dr. Santanu Mandal
Dean, SAS
VIT-AP University

Dr. S. V. Kota Reddy
Vice Chancellor
VIT-AP University

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Savitribai Phule Pune University, Pune
TE Computer Engineering 2019 Course Syllabus Revision
Course Coordinators Presentation Schedule

Date: 27/05/2021

Sr. No.	Name of Course	Team Coordinators	Presentation schedule	
			Date	Time
1	Database Management Systems	Dr. Anuradha Thakare	3/6/2021	10:30 am to 10:40am
2	Theory of Computation	Dr. Sunil Dhore		10:40 am to 10:50am
3	Systems Programming and Operating Systems	Dr. Manisha Bhende		10:50 am to 11:00am
4	Computer Networks and Security	Dr. P. B. Kumbharkar		11:00 am to 11:10am
5	Elective I: Internet of Things and Embedded Systems	Dr. A. B. Pawar		11:10 am to 11:20am
6	Elective I: Human Computer Interface	Dr. S. D. Babar		11:20 am to 11:30am
7	Elective I: Distributed System	Dr. Amar Buchade		11:30 am to 11:40am
8	Elective I: Software Project Management	Dr. Sachin Sakhare		11:40 am to 11:50am
9	Database Management System Laboratory	Prof. Rahul Patil		11:50 am to 12:00pm
10	Computer Networks and Security Laboratory	Dr. Vinod V. Kimbahune		12:00 pm to 12:10pm
11	Laboratory	Dr. Amol Potgantwar		12:10 pm to 12:20pm
12	Practice I			12:20 pm to 12:30pm
13	Seminar	Dr. Swati A. Bhavsar		12:30 pm to 12:40pm
14	Audit Course 5	Dr. Kishor Wagh		12:40 pm to 12:50pm
15	Data Science and Big Data Analytics	Dr. Sheetal Sonawane	4/6/2021	10:30 am to 10:40am
16	Web Technology	Prof. Abhijit D. Jadhav		10:40 am to 10:50am
17	Artificial Intelligence	Dr. J. R. Prasad		10:50 am to 11:00am
18	Elective II: Information Security	Dr. Swati Nikam		11:00 am to 11:10am
19	Elective II: Augmented and Virtual Reality	Dr. Shaikh Nuzhat Faiz		11:10 am to 11:20am
20	Elective II: Cloud Computing	Dr. S. K. Sonkar		11:20 am to 11:30am
21	Elective II: Software Modeling and Architectures	Dr M A Pradhan		11:30 am to 11:40am
22	Internship	Dr. Gitanjali V. Kale		11:40 am to 11:50am
23	Data Science and Big Data Analytics Laboratory	Dr. H. K. Khanuja		11:50 am to 12:00pm
24	Web Technology Laboratory	Prof. Abhijit D. Jadhav		12:00 pm to 12:10pm
25	Laboratory Practice II	Dr. Snehal Mohan Kamalapur		12:10 pm to 12:20pm
26	Audit Course 6	Dr. Sangve Sunil M.		12:20 pm to 12:30pm

BoS Computer Engineering
SPPU, Pune

HOD Computer <hodcomp@srttc.ac.in>

Meeting Link for TE Computer Engineering 2019 course syllabus revision Course Coordinators presentations on 4th June 2021

1 message

Dr Pramod Patil <pdpatiljune@gmail.com> Thu, Jun 3, 2021 at 10:12 PM
To: "Santosh V. Chobe" <santosh.chobe@dypvp.edu.in>, HOD Computer <hod_comp@pgmcoepune.com>, archana.chaugule@pccoer.in, Hodcomp <hodcomp@pict.edu>, mvm_comp@pvgcoet.ac.in, mapotey@gmail.com, Rahul Paikrao <rahul.paikrao@avcoe.org>, sharad.rokade@pravara.in, Dhananjay Kshirsagar <dbk4444@gmail.com>, svpmcoecompspeaks <hodcomputer.svpm@gmail.com>, Dwarkoba Gaikwad <dpgaikwad@aissmscoe.com>, Mahesh Wankhade <mpwankhade.scoe@sinhgad.edu>, sarika_k_99@yahoo.com, kishor.shedge@pravara.in, hod@comp.maepune.ac.in, hod.comp@kbtcoe.org, Ratnaraj Kumar <ratnaraj.jambi@gmail.com>, Rajeswari Kannan <raji.pccoe@gmail.com>, hod.comp@vpkbiet.org, S B Chaudhari <sbchaudharitrinity@gmail.com>, Sanghavi Sir <sanghavi.mahesh@gmail.com>, "Prof. Sachin D. Babar" <hodce.sit@sinhgad.edu>, BALASAHEB GITE <bbgite.sae@sinhgad.edu>, Gupbrij@rediffmail.com, sandeepchaware@mmcoe.edu.in, poonam gupta <poonam.gupta@raisoni.net>, "M.U. Kharat" <mukharat@rediffmail.com>, Imran Shaikh <imran.shaikh22@gmail.com>, dpgadekar_compicoer@jspm.edu.in, hodcomp <hodcomp@indiraicem.ac.in>, rachana.sable@raisoni.net, Shyam Ingle <shyamingle@gmail.com>, GSN <hodcomp_sits@sinhgad.edu>, subhash.rathod@mmit.edu.in, Ameet Zore <amit.zore@gmail.com>, "HOD, COMPUTER DEPT., BVCOERI [062]" <hod.comp@engg.brahmavalley.com>, aaemfcoe comp <comp0063@gmail.com>, Shital Aher <shitalaher5445@gmail.com>, pavan kulkarni <pavanscs012@gmail.com>, vidya.jagtap@raisoni.net, Mininath Nighot <imaheshnighot@gmail.com>, comp.spcoe@gmail.com, headcomp@ges-coengg.org, hodcomp.acem@gmail.com, mukund.wagh.81@gmail.com, Gayatri Bhandari <gayatri.bhandari1980@gmail.com>, maheshdhande@rediffmail.com, Nilesh Wankhade <nileshrw_2000@yahoo.com>, Prashant Suryavanshi <sprashant1234@gmail.com>, Sachin Hiranwale <hiranwalesachin@gmail.com>, Shashi Ghumbre <shashi.ghumbre@gmail.com>, pramod sinare <pramod.sinare100@gmail.com>, sandeep kadam <sandiipkadam@gmail.com>, pallavi.jha@isbm.ac.in, comp.ucoer@gmail.com, kamini nalavade <kamini.nalavade@siem.org.in>, Dnyaneshwar Wavhal <dnyaneshwar.wavhal@gmail.com>, amolrajpure9@gmail.com, hod_comp@pvgcoenashik.org, hod_comp@dypic.in, Santosh Darade <darade.santosh@gmail.com>, Mangesh Manake <mangesh.manake@dyptc.edu.in>, hod.sgoicoe@gmail.com, HOD Computer <hodcomp@srttc.ac.in>, HoD – Computer <hodce@isquareit.edu.in>, Deepti Varshney <varshney.deepti11@gmail.com>, Nitin Bhandari <nitinbhandari.engg@gmail.com>, Mangesh Salunke <salunkemangesh019@gmail.com>, Bhushan Borhade <borhadebhushan@gmail.com>, head_compntc@jspm.edu.in, Jyoti Lagad <jyotilagad@gmail.com>, "RMD SSOE, Warje, Pune COMP. ENGG. Dept." <comphod.rmdssoe@sinhgad.edu>, Hodcomp Soet <hodcompsoet@dypic.in>, HODCOMP SKNSITS <hodce.sknsits@sinhgad.edu>, HOD COMPUTER <hodcomp.nbnssoe@sinhgad.edu>, Yogesh Jorwekar <jorwekaryogesh@gmail.com>, Vinod Bharat <vinod.bharat@dyptc.edu.in>, Rama Gaikwad <hodcomp@abmspcoerpune.org>, Uday Patkar <Patkarudayc@gmail.com>, Ashwini Gaykar <ash77gaykar@gmail.com>, Geetanjali Mohole <gpmohole@gmail.com>, Santosh Darawade <santosh.darawade@gmail.com>, hodcomp.scenashik@shreemahavir.org, "Vilas G. Mankar" <vilasmankar@gmail.com>, Prajakta Deshmukh <prajaktad2905@gmail.com>, khatalsunils88@gmail.com, tanajidhaigude@gmail.com

Dear Sir/Madam,

Herewith please find the meeting link for presentations by Course Coordinators of TE Computer Engineering 2019 course syllabus revision, on 4th June 2021.

BoS Computer Engineering SPPU is inviting you to a scheduled Zoom meeting.

Topic: Presentation TE Computer Syllabus Draft

Time: Jun 4, 2021 10:30 AM India

Join Zoom Meeting
https://dpu-edu-in.zoom.us/j/97204922745?pwd=S1FTcVFpTjJGODVtV3B6dHFod1JBdz09

Meeting ID: 972 0492 2745
Passcode: 373726

Also find attached the schedule for your reference.

Thanks and Regards,

--

Prof.Dr.Pramod Patil

Post Doctoral Researcher. Center for Communication Media and Information Technology, Aalborg University, Copenhagen, Denmark
ME(CE), Ph.D (CE), College of Engineering **(COEP)**, Pune
BE(CSE),S.G.G.S.College of Engineering and Technology, Nanded
LMISTE, Membership of ACM, CSI

I/C Principal and Professor
Department of Computer Engineering
Dr D.Y.Patil Institute of Technology, Pimpri, Pune-411018
Member, Board of Studies (Computer Engineering), Savitribai Phule Pune University
Member, Faculty of Science and Technology, Savitribai Phule Pune University

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TE_Comp_Engg_2019_course_coordinators_ppt_schedules.pdf
197K

Savitribai Phule Pune University

Formerly University Of Pune

Phone : 020-25621445
Fax : 020-25601206
Web : http://www.unipune.ac.in

CO-ORDINATION SECTION
Ganeshkhind, Pune - 411 007
Maharashtra (INDIA)

Second half of the year,2020

17/03/2021 07:00

21031700019

More Anjali Sanjivanrao

Suman Ramesh Tulsiani Charitable Trust Suman Ramesh Tulsiani Technical Campus Faculty of Engineering
Addr: Survey No 818291929497991011021 06At Post Mauje Khamshet Ta: Mawal Dist: Pune

Mobile No. : 9921897835 Email : anjalimore1980@rediff.com

Sir/ Madam,

1. The University Authorities have been pleased to appoint you for the Paper Setter and Examiner, in the subject of :-

Post Name	Examination	Paper / Subject	Chairman	Important Dates
Paper Setter & Examiner **Appt NO.** 20239232	B.E. (Theory) BOS:Computer Engineering	Paper-Advanced Databases (410445) , B.E.2008 Course Sem- II (Ele-III)	**Tambe Kailas Popat** Zeal Education Society Zeal College of Engineering and Research Addr: Sr No 39Katraj-Dhayari Road Narhe Pune Ta: Haweli(excluding Corporation Area) Dist: Pune **9552539195**	E-Mode question bank submission last date - **13 June 2021**

2. The appointment is based on certain assumptions and subject to the respective provisions of the Maharashtra Public Universities Act 2016 and Statues/Ordinances, Rules and Regulations framed thereunder.
3. It shall be obligatory on every faculty member of affiliated colleges to render necessary assistance and service in respect of examinations of the University.
4. As per the decision taken by the statutory bodies, the mode of examinations will be online consist of 60 multiple choice questions of one mark each for examinees. Out of these 50 correctly solved questions will be considered for the evaluation purpose. As per the decision taken during the meeting of Board of Examinations & Evaluation for under-graduate and post-graduate programs in Statistics and Mathematics and FY BCA 2019 pattern- mathematics, there will be 30 multiple choice questions of two marks each. Out of these 25 correctly solved questions will be considered for the evaluation purpose.
5. On the recommendation of concern BOS the Board of Examinations & Evaluation has approved the proposal of syllabus for the **final year Science under-graduate programs only,** question papers will on 70 percent syllabus. The contents of these syllabi are uploaded on the University web-portal **unipune.ac.in** under the General Circulars (Examinations).
6. For all other programs question papers shall be set on 100 percent syllabus.
7. **Method of uploading question bank:**

a] For the examinations which are getting conducted for the first time at the University level for those subjects taught first time as per the revised syllabus each multiple choice question bank shall have 200 questions. These shall be uploaded through the designated web-portal using BCUD Login of the Chairman of the paper setting panel through the web-portal **qpg.unipune.ac.in** specially developed for this purpose. It is mandatory to prepare question banks in prescribed format which is made available to the paper setters on the qpg.unipune.ac.in

b] There are some question banks of the first year first term programs prepared on the 70 percent syllabus. Concerned paper setting panel is required to add the multiple choice questions on the remaining 30 percent syllabus for incorporating 100 percent syllabus.

c] For the final year Science programs, the question banks are available with 100 percent syllabus.The designated chairman is expected to go through the contents of these question banks and delete the questions which are not out of the 70 percent syllabus finalized by the Board of Studies and approval taken by Board of Examinations and Evaluation. The Designated chairman shall upload on qpg portal.

6/9/2021 7:39:46 PM

d] For the other cases where the examinations are already conducted using the question bank provided by the paper setting panel, the question bank will available in excel format . These papers setting panel is required to include additional new 50 questions in the question bank. Precautions shall be taken not to include questions, which already exist in previous question bank.

I seek your co-operation.
Thanking You

Yours,
For Director,Board of Examination and Evaluation

To,
The Principal/Directors,

You are requested to relieve the teachers for paper setting. Also requested to communicate names of the teacher/s who remain absent for the work of paper setting, the said information is required for submission to the University Authorities for necessary action under the provisions of section 48(4) of the Maharashtra Public Universityes Act,2016.

For early payment of examination remuneration work through ECS, you are requested to update your BCUD online teacher profile with Bank Account details. For details contact 020-25601388

Paper setter payment will done through automated NEFT/RTGS service for which please update your pancard ,bank account details and bank IFSC code in your teacher profile.`

Course Code	Course Name	Subject Code	Subject Name
24813	M.E. (2013 PAT.)	604102	WIRELESS & MOBILE TECHNOLOGIES
25013	M. COM. (2013)	215	BANKING LAW & PRACTICES
70115	F.E. (2015 COURSE) EXAMINATION	102006	ENGINEERING GRAPHICS I

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Thank you for attending the Web seminar: National Webinar on 12th June_11.30 am to 1.30 pm-Keynote Speaker: Dr. Anil Sahsrabudhe-AICTE Chairman

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messenger@webex.com <messenger@webex.com> Sat, Jun 12, 2021 at 2:31 PM
Reply-To: sanjmeht@in.ibm.com
To: hodcomp@srttc.ac.in

Hello Anjali Manojkumar Dalvi ,

Thank you for attending the National Webinar on 12th June_11.30 am to 1.30 pm-Keynote Speaker: Dr. Anil Sahsrabudhe-AICTE Chairman Web seminar on Saturday, June 12, 2021 using Webex.

If you have comments or questions, please contact your host, Sanjiv Mehta, at:

Topic: National Webinar on 12th June_11.30 am to 1.30 pm-Keynote Speaker: Dr. Anil Sahsrabudhe-AICTE Chairman

Saturday, June 12, 2021
Host: Sanjiv Mehta (sanjmeht@in.ibm.com)
sanjmeht@in.ibm.com

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messenger@webex.com <messenger@webex.com> Thu, Jun 10, 2021 at 11:00 AM
Reply-To: sanjmeht@in.ibm.com
To: hodcomp@srttc.ac.in

Hello Anjali Manojkumar Dalvi,

Your registration was approved for the following Webex event.

Topic: National Webinar on 12th June_11.30 am to 1.30 pm-Keynote Speaker: Dr. Anil Sahsrabudhe-AICTE Chairman
Host: Sanjiv Mehta
Date and Time:
Saturday, June 12, 2021 11:30 am, India Time (Mumbai, GMT+05:30)
Saturday, June 12, 2021 2:00 am, Eastern Daylight Time (New York, GMT-04:00)

Event number: 145 053 2952
Registration ID: This event does not require a registration ID

Event password: AICTE_WEBINAR (24283093 from phones)

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For assistance

You can contact Sanjiv Mehta at:
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Chapter 1
Review of Imbalanced Data Classification and Approaches Relating to Real-Time Applications

Anjali S. More
Sardar Vallabhbhai National Institute of Technology, Surat, India

Dipti P. Rana
https://orcid.org/0000-0002-5058-1355
Sardar Vallabhbhai National Institute of Technology, Surat, India

ABSTRACT

In today's era, multifarious data mining applications deal with leading challenges of handling imbalanced data classification and its impact on performance metrics. There is the presence of skewed data distribution in an ample range of existent time applications which engrossed the attention of researchers. Fraud detection in finance, disease diagnosis in medical applications, oil spill detection, pilfering in electricity, anomaly detection and intrusion detection in security, and other real-time applications constitute uneven data distribution. Data imbalance affects classification performance metrics and upturns the error rate. These leading challenges prompted researchers to investigate imbalanced data applications and related machine learning approaches. The intent of this research work is to review a wide variety of imbalanced data applications of skewed data distribution as binary class data unevenness and multiclass data disproportion, the problem encounters, the variety of approaches to resolve the data imbalance, and possible open research areas.

DOI: 10.4018/978-1-7998-7371-6.ch001

INTRODUCTION

Data cataloging into specific classes is one of the foremost techniques in the domain of machine learning and mining with the heuristics of balanced dataset i.e. the data is equally distributed among the classes. This heuristic is not true in the existent world applications and the majority of the related applications are having imbalanced dataset where data is skewed towards one class or more than one classes. The imbalanced nature of data is having their own importance, one cannot neglect them. Thus, many researchers are motivated to deal with imbalanced classification for real-life applications. There is an incessant growth of instances of data availability in many application eras such as finance, health care, computer network system, security, internet of things, etc. where it is very much essential to advance the primary perceptive of knowledge discovery and data analysis to take the critical decision.

Nowadays, though there is existence of data discovery techniques, imbalanced data applications relating to real-life scenarios have shown the great attraction to the researchers to focus on imbalanced applications and review the problems occurred due to data unevenness. The individuals working in industry as well as academia gets attracted towards diverted data applications as review in the survey section by Alberto Fernández et al. (2009).

Several realistic application areas deal with the handling of uneven data representation, the minority instance class gets ignored due to the majority instance class. Unequal data distribution leans performance metrics towards the majority class. The review study in this research focuses on the most important application categories of imbalanced data distribution as binary class imbalance and multiclass data imbalance. To deal with the promising issues arising from class imbalance this study presents a review of imbalanced data applications, imbalanced data categories, problems encountered due to this characteristic, and the methodologies to deal with distorted data relating to real-life applications.

BACKGROUND

Classification is the most popular technique to correctly classify an instance with unknown class. Many real-world data sets show evidence of unequal class distributions in which maximum data samples are belonging to one of the larger class and far fewer data instances are falling into minority class. In case of medical diagnosis example, which consist of the cases that relates to diagnosis for a rare disease. For the referred example, only 2% of the patients are positive diagnosis and 98% diagnosis as negative. Dealing with such imbalanced datasets and related classification generates the need of machine learning algorithms. In current time the data diverted applications are relating to binary as well as multiclass data imbalance. In both category of imbalanced class either of one class having maximum instance and which diverts the performance towards majority class, i.e. performance is leaned towards majority class. The traditional classifiers reveal accurate forecast for the majority instance class and diversify the performance in case of minority data sample class. The cost of misclassification an imbalanced class can be harmful for the real world application like disease diagnostics. Thus, in today's era, Stefan Lessmann (2014) and Rebeen A. H., Masashi K. & Jens L (2020) show imbalanced data applications have received considerable attention from the research community to further boost their performance by numerous machine learning algorithms. Lars W. Jochumsen et al. (2016), Nahit Emanet et al. (2014), explained in the study that there are diverse approaches to tackle the trouble of extremely imbalanced data applications. In particular, the study deals with the description of preprocessing, cost-sensitive learning, Support Vector

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Registration Confirmation & Event Details

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Reply-To: events@isquareit.edu.in
To: events@isquareit.edu.in, hodcomp@srttc.ac.in

Fri, Jun 12, 2020 at 2:52 PM

Dear Prof Prof. Anjali Sanjivanrao More,

Greetings of the Day.....!!!

Thanks for registering our upcoming event on "**Assessment of Pre-Final Year Engineering Students**" organized by Hope Foundation's International Institute of Information Technology, Pune.

Guidelines to all Engineering faculty members on how to effectively assess the academic performances of students for the academic year 2019-20.

Speakers:

Dr. Manohar G Chaskar,

Dean Faculty of Science and Technology, SPPU

Shri Mahesh Kakade

Director of Board of Examinations and Evaluation, SPPU

Webinar will be Live Streamed through **"Microsoft Teams" Platform**

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Chapter 1
Review of Imbalanced Data Classification and Approaches Relating to Real-Time Applications

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ABSTRACT

In today's era, multifarious data mining applications deal with leading challenges of handling imbalanced data classification and its impact on performance metrics. There is the presence of skewed data distribution in an ample range of existent time applications which engrossed the attention of researchers. Fraud detection in finance, disease diagnosis in medical applications, oil spill detection, pilfering in electricity, anomaly detection and intrusion detection in security, and other real-time applications constitute uneven data distribution. Data imbalance affects classification performance metrics and upturns the error rate. These leading challenges prompted researchers to investigate imbalanced data applications and related machine learning approaches. The intent of this research work is to review a wide variety of imbalanced data applications of skewed data distribution as binary class data unevenness and multiclass data disproportion, the problem encounters, the variety of approaches to resolve the data imbalance, and possible open research areas.

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INTRODUCTION

Data cataloging into specific classes is one of the foremost techniques in the domain of machine learning and mining with the heuristics of balanced dataset i.e. the data is equally distributed among the classes. This heuristic is not true in the existent world applications and the majority of the related applications are having imbalanced dataset where data is skewed towards one class or more than one classes. The imbalanced nature of data is having their own importance, one cannot neglect them. Thus, many researchers are motivated to deal with imbalanced classification for real-life applications. There is an incessant growth of instances of data availability in many application eras such as finance, health care, computer network system, security, internet of things, etc. where it is very much essential to advance the primary perceptive of knowledge discovery and data analysis to take the critical decision.

Nowadays, though there is existence of data discovery techniques, imbalanced data applications relating to real-life scenarios have shown the great attraction to the researchers to focus on imbalanced applications and review the problems occurred due to data unevenness. The individuals working in industry as well as academia gets attracted towards diverted data applications as review in the survey section by Alberto Fernández et al. (2009).

Several realistic application areas deal with the handling of uneven data representation, the minority instance class gets ignored due to the majority instance class. Unequal data distribution leans performance metrics towards the majority class. The review study in this research focuses on the most important application categories of imbalanced data distribution as binary class imbalance and multiclass data imbalance. To deal with the promising issues arising from class imbalance this study presents a review of imbalanced data applications, imbalanced data categories, problems encountered due to this characteristic, and the methodologies to deal with distorted data relating to real-life applications.

BACKGROUND

Classification is the most popular technique to correctly classify an instance with unknown class. Many real-world data sets show evidence of unequal class distributions in which maximum data samples are belonging to one of the larger class and far fewer data instances are falling into minority class. In case of medical diagnosis example, which consist of the cases that relates to diagnosis for a rare disease. For the referred example, only 2% of the patients are positive diagnosis and 98% diagnosis as negative. Dealing with such imbalanced datasets and related classification generates the need of machine learning algorithms. In current time the data diverted applications are relating to binary as well as multiclass data imbalance. In both category of imbalanced class either of one class having maximum instance and which diverts the performance towards majority class, i.e. performance is leaned towards majority class. The traditional classifiers reveal accurate forecast for the majority instance class and diversify the performance in case of minority data sample class. The cost of misclassification an imbalanced class can be harmful for the real world application like disease diagnostics. Thus, in today's era, Stefan Lessmann (2014) and Rebeen A. H., Masashi K. & Jens L (2020) show imbalanced data applications have received considerable attention from the research community to further boost their performance by numerous machine learning algorithms. Lars W. Jochumsen et al. (2016), Nahit Emanet et al. (2014), explained in the study that there are diverse approaches to tackle the trouble of extremely imbalanced data applications. In particular, the study deals with the description of preprocessing, cost-sensitive learning, Support Vector

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Evaluation Submission Confirmation

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To: jyotsna.barpute@srttc.ac.in

Fri, Jan 21, 2022 at 11:07 AM

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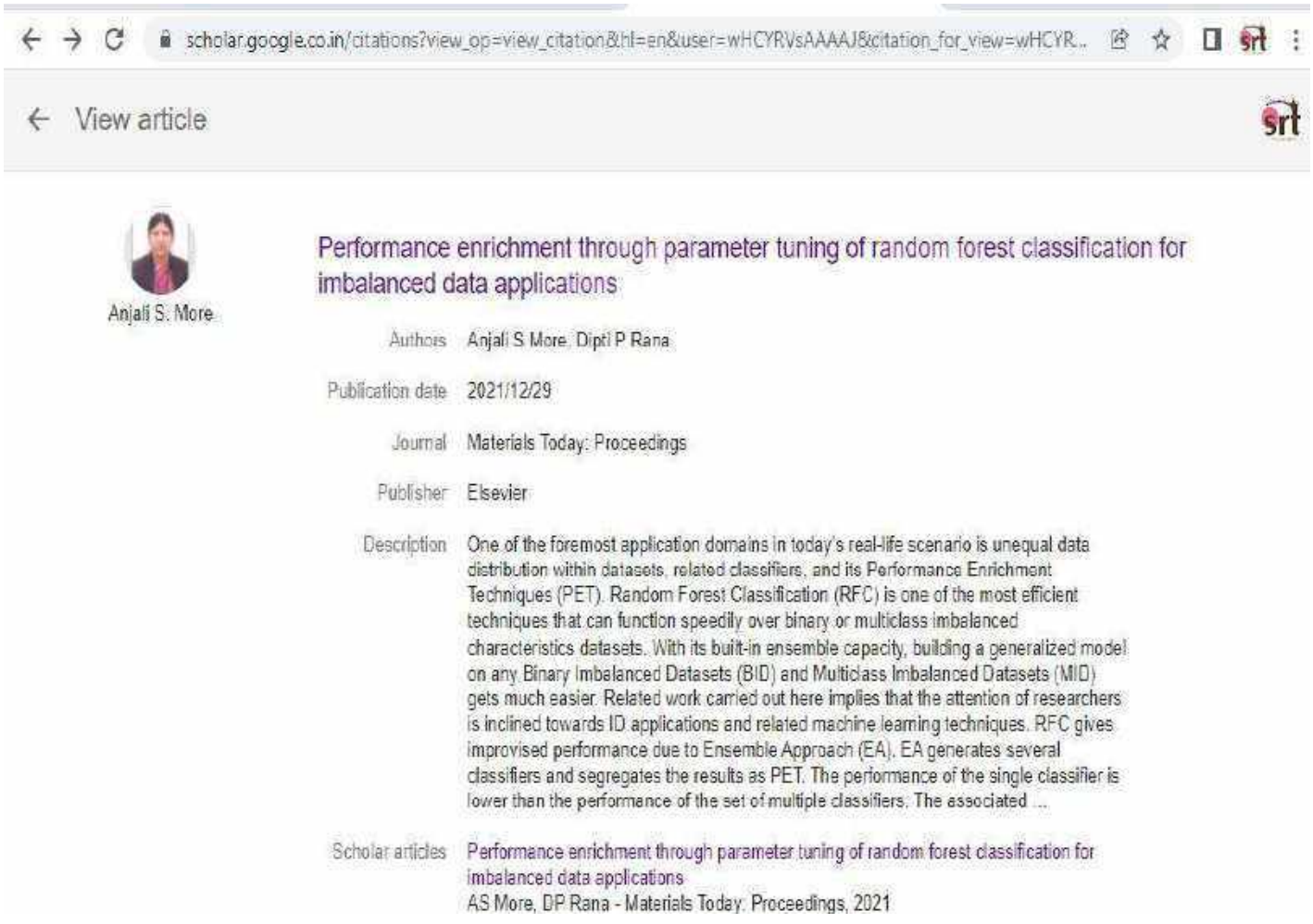

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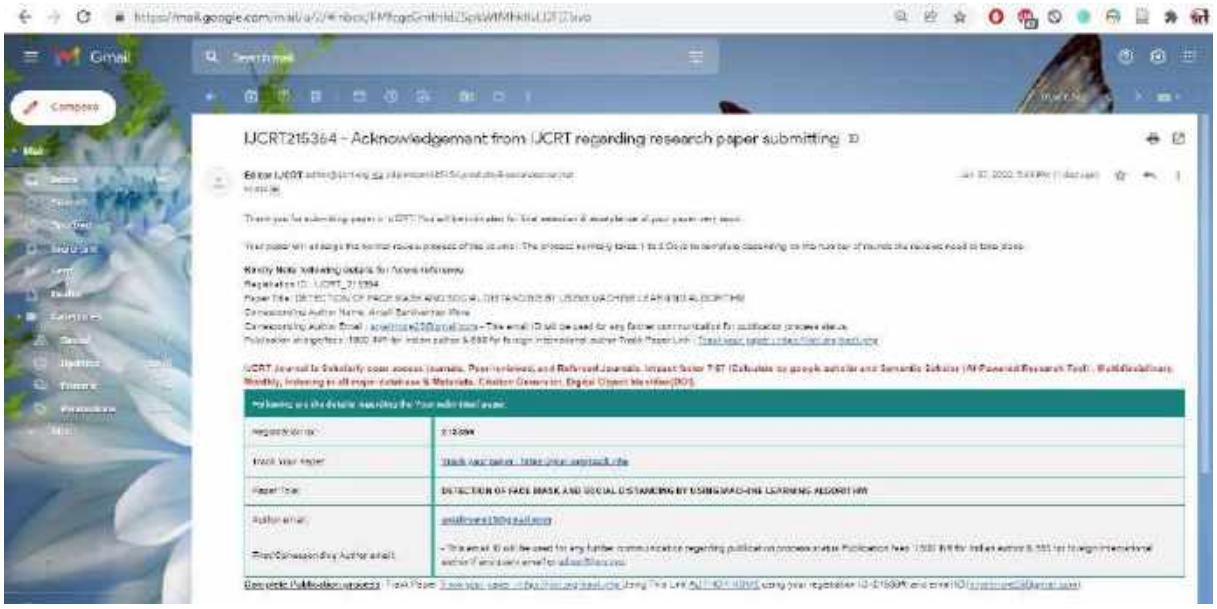

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Bharati Vidyapeeth's
College of Engineering, Lavale, Pune.
Department of Computer Engineering

Certificate Of Participation

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(Computer Engineering)

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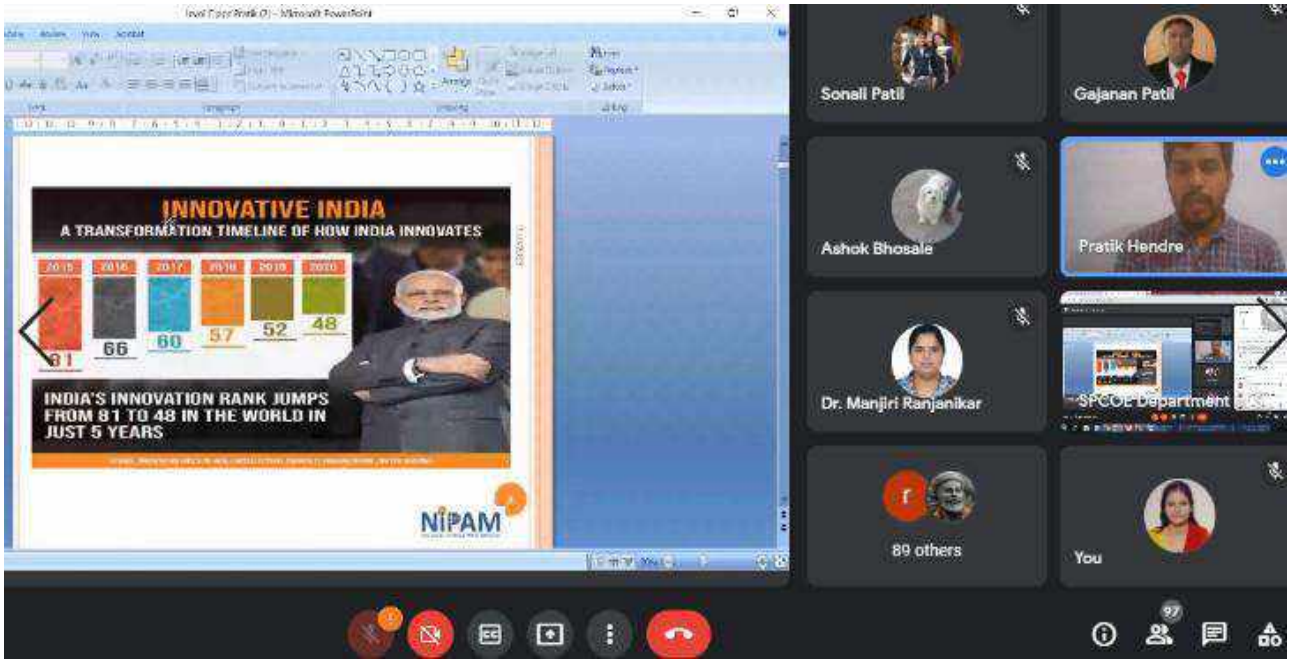

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