

K.T.S.P. MANDAL'S

HUTUTMA RAJGURU MAHAVIDYALAYA, RAJGURUNAGAR

TAL-KHED, DIST-PUNE 410 505

DEPARTMENT OF MATHEMATICS AND STATISTICS

BRIEF REPORT OF GUEST LECTURE

Sr. No.	Particulars	Details
1	Date	02/03/2024
2	Name of the event	Guest Lecture
3	Duration of the programme	1 Day
4	Venue	Online
5	Name of coordinator	Prof. R. M. Wayal, Prof. S. R. Thorat
6	Number of Participants	45
7	Activity belongs to which criteria	Criteria II
8	Curricular/Co-Curricular/Extra-Curricular	Co-Curricular

Department of Mathematics and Statistics organized a guest lecture of Mr. Prakash Bade, Vice President-Risk Modeling, HSBC London, on Career Opportunities in Mathematical Sciences for F.Y.B.Sc. and S.Y.B.Sc. students on March 2, 2024. Mr. Bade shared his extensive insights into how mathematical sciences play a crucial role in various industries, particularly in finance and risk management. Mr. Bade emphasized the fundamental importance of mathematical sciences in understanding and solving complex problems across different sectors. He highlighted how mathematical models are the backbone of various industries, including finance, engineering, data science, and more.

He discussed diverse career paths available for individuals with expertise in mathematical sciences. These include roles in finance (investment banking, risk management, quantitative analysis), technology (data science, machine learning, artificial intelligence), academia (research, teaching), and government (policy analysis, statistical research). He outlined the essential skills and qualifications required for a successful career in mathematical sciences. Apart from strong mathematical aptitude, he stressed the importance of programming skills (Python, R, MATLAB), proficiency in statistical analysis, critical thinking, problem-solving abilities, and effective communication skills.

Drawing from his experience at HSBC London, Mr. Bade provided valuable insights into the financial industry's dynamics and the growing demand for mathematical expertise. He discussed the role of mathematical models in risk assessment, portfolio optimization, derivative pricing, and regulatory compliance. He highlighted the significance of continuous learning and professional development in staying abreast of advancements in mathematical sciences. He encouraged students to pursue internships, participate in research projects, and seek mentorship opportunities to enhance their skills and expand their networks.

The screenshot shows a Beamer presentation slide titled "Career Opportunities in Mathematical Sciences" by Mr. Prakash Bade. The slide is displayed within a software interface, likely Beamer, with a toolbar at the top and a participant list on the right. The slide content includes the following text and images:

- Logo of K. T. S. P. Mandal's Hutatma Rajguru Mahavidyalaya, Rajgurunagar.
- Text: "K. T. S. P. Mandal's HUTATMA RAJGURU MAHAVIDYALAYA, RAJGURUNAGAR DEPARTMENT OF MATHEMATICS AND STATISTICS Career Opportunities in Mathematical Sciences By MR. PRAKASH BADE Vice President-Risk Modeling, HSBC London".
- Three speakers listed at the bottom: Prof. S. R. Thorat (HOD Statistics), Prof. R. M. Wayal (HOD Mathematics), and Dr. S. S. Pingale (Principal). Each name is accompanied by a small portrait photo.

The software interface shows a toolbar with options like Design, Transitions, Animations, Slide Show, Review, View, Record, and Tell me. A participant list on the right includes Rupali Woyal, Sandeep Thorat, Prakash Bade, Dr. Shirish Pingale, and vrushali kale. The bottom of the interface shows a status bar with "United States", "Accessibility: Investigate", "Notes", "Comments", and a 106% zoom level.

Zoom Meeting

Participants (28)

Find a participant

- ND Nikita Dhimal
- PK Payal kale
- PR Pranjal Raundhal
- RB Rasika Bhambure
- RS Rutuja Sable
- SA Sabdar Ansari
- SY Sakshi Yelwande
- SP Samiksha Pawar
- SK Sharvari Khese
- S Shivam
- SK Shreya Kantikar
- SS Sonam Shaikh
- VM Vishakha m Satkar
- VK vrushali kale

Invite Unmute Me

33°C Sunny

Carrier You are viewing Prakash Bade's screen

Home Insert Draw Design Transitions Animations Slide Show Review View Record Tell me

Unlocking Opportunities: Post-Graduate Pathways in Statistics and Mathematics

By Prakash Bade (Vice President- Risk Analytics, HSBC, London, UK)

Participants: Rupali Woyal, Prakash Bade, SANDEEP THORAT, Asmita Mohan, vrushali kale

Mute Start Video Participants Chat Share Screen Record Show Captions Reactions Apps Whiteboards Notes Leave

Carrier in Statistics_KTHM_Prak - Last Modified: 2h ago

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Slide 5 of 11 English (United States) Accessibility: Investigate

Technology and Services

Churn analysis

Healthcare Outcomes Analysis

Warranty Management

Customer behavior analysis

IT Infrastructure optimization

Advertising Analysis

Legal Discovery

Natural Resource Exploration

Weather forecasting

Equipment monitoring

Life Sciences Research

Traffic flow optimization

Pricing optimization

Social network analysis

Fraud detection

Web Application Optimization

Click to add notes

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Slide 3 of 11 English (United States) Accessibility: Investigate

Analytics Components

Mean = Sum of scores divided by the number of scores (often referred to as the statistical average)

$$\bar{X} = \frac{\sum_{i=1}^N X_i}{N}$$

Median = Middle Most Number

$$M_d$$

Mode = Most Frequently Occurring Number

$$M_o$$

Domain Expertise

Analytics

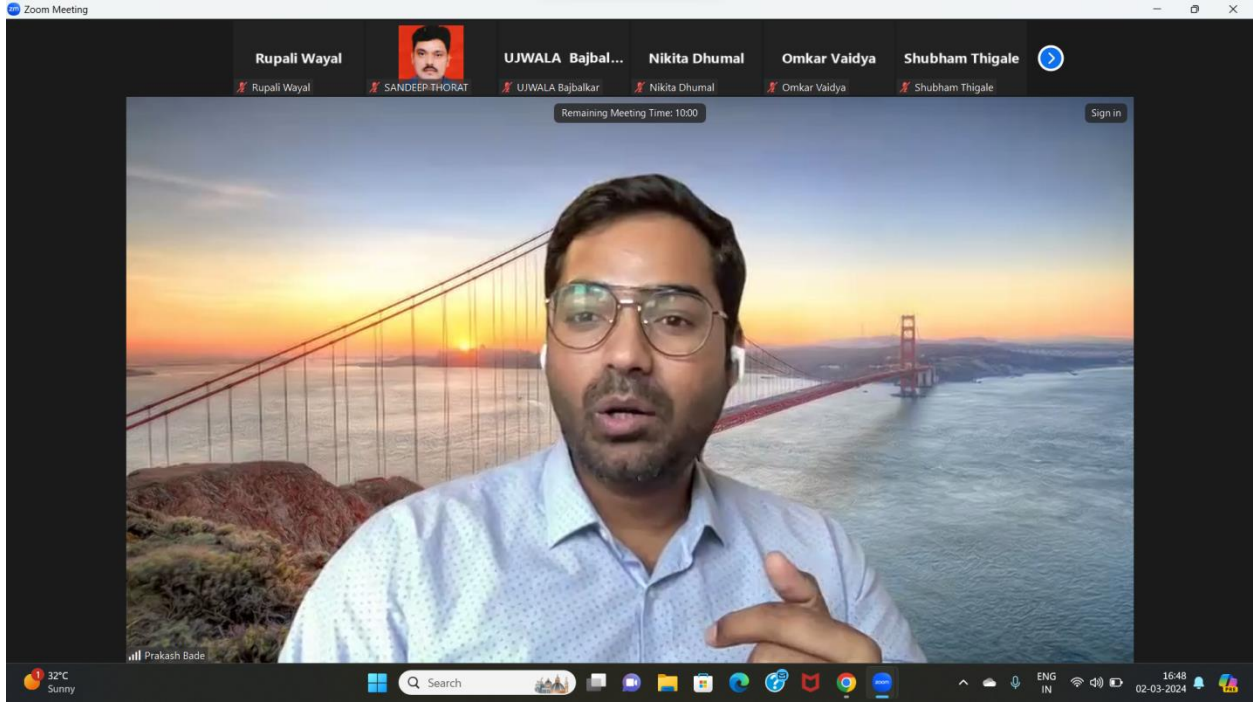
Data Engineering

Advance Computing

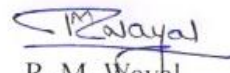
Visualization


Statistics

Click to add notes




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