

Pratibha Bhandari(PB)

Residence/domicile: Dehradun, Uttarakhand

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Aim

Currently Pursuing PhD in Computational Data Science (second year) with abilities in statistics and predictive analysis, looking forward to research on data situations present in the real world. Highly organized, motivated and diligent with good communication and interpersonal abilities, trying to use the solid command on intricate mathematical ideas and programming knowledge to contribute to the growth of the institution and myself.

Education

Ph. D. (Computational Data Science)

Indian Institute of Sciences, Bengaluru
Graph Neural Stochastic Differential Equations

August 2024 - present
CGPA(12 credits): 9/10

MTech. Modelling and Simulation

Master's degree program

DIAT Pune
2022-24

First semester : 9.77/10, **Second semester :** 9.33/10

Third and fourth semester *Dissertation work on Forecasting of Financial Time series data possessing Stable Distribution by employing Stochastic Differential Equation*

Total cgpa: 9.5/10

M. Sc. Mathematics

Master's degree program
Final cgpa: 8.33/10

D.B.S.(PG) College, Dehradun
August 2017 - June 2019

B.Sc. (H) Mathematics

Bachelor's degree program
Final grade: 91%

Graphic Era Hill University, Uttarakhand
August 2014 - June 2017

Intermediate

Intermediate program
Final grade: 88.6 percentile

Shri Guru Nanak Public School, Dehradun
May 2013 - May 2014

Highschool

Highschool program
Final grade: 89.3 percentile

Shri Guru Nanak Public School, Dehradun
May 2011 - May 2012

Work experience

IFTM University, Moradabad

Assistant Professor in Mathematics Department of School of Sciences

April 2021 - July 2022
Uttar Pradesh

- Taught Undergraduates, Post Graduates and Diploma students
- Worked with Training and Placement cell (TnP)
- Was also a part of Online Education and learning Management System (OELMS) Cell.

- Subjects taught: Linear Algebra, Abstract Algebra, Mathematics for Engineers, Ordinary Differential Equation, and many more.
- Prepared graded assignments and evaluated answer scripts.

Achievements

GATE Qualified <i>(ST) AIR-53 GATE</i>	2024
GATE Qualified <i>(DA) AIR-1047 GATE</i>	2024
GATE Qualified <i>(MA) Applied Mathematics</i>	2022, 2023
Gold Medal <i>M.Tech. (Modelling and Simulation)</i>	2024 DIAT Pune
NPTEL course on Deep Learning <i>Successfully completed the course with a valid certificate</i>	July-Oct 2023 IIT Ropar
NPTEL course on Machine Learning <i>Successfully completed the course with a valid certificate</i>	Feb-April 2023 IIT Madras
NPTEL course on Python for Data Science <i>Successfully completed the course with a valid certificate</i>	Feb-March 2023 IIT Madras
NPTEL course on Basics of Real Analysis <i>Successfully completed the course with a valid certificate</i>	2020 IIT Bombay
NPTEL course on Differential Calculus in Several Variables <i>Successfully completed the course with a valid certificate</i>	2016 IIT Kanpur
NPTEL course on Basic calculus for Engineers, Scientist and Economists <i>Successfully completed the course with a valid certificate</i>	2015 IIT Madras
Gold Medal <i>B. SC. (H) Mathematics</i>	2017 GEHU Uttarakhand
Attended Workshop On Modelling Optimization and Simulation of Stochastic systems (MOSSS-16) <i>Mathematical Colloquium, Department of Mathematics</i>	2016 IIT Roorkee

Project

(Second year Dissertation work) Forecasting of Financial Time series data possessing Stable Distribution by employing Stochastic Differential Equation
Lévy Induced Stochastic Differential Equation Network (LDE-Net), α -stable Lévy motion

Publication

Acceptance of paper “Forecasting of financial time series data possessing stable distributions by employing Stochastic Differential Equations: A review” for oral presentation at PuneCon2023, IEEE Pune Section International Conference, for publication in IEEE explore.

Internship

Corteva Agriscience India private Ltd.

Computer Vision task: Worked on Foundation models in CV like building custom SAM(Segment Anything Model) from the paper "Segment Anything" by Meta AI for Agricultural dataset. (Period: 29 Jan 2024 to 26 July 2024)

Technical skills

Programming Languages/Tools
Worked with Libraries

C, C++, MATLAB, Python, L^AT_EX
Pandas, Numpy, Matplotlib, Scikit-learn, seaborn, PyTorch

Subjects of interest

Probability and Statistics, Machine Learning, Deep Learning, Linear Algebra

Hobbies

Reading Newspaper, Playing Table Tennis and Volleyball , Cycling and Baking