

# RATHIJIT BISWAS, PH.D

## CONTACT



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## CORE QUALIFICATIONS

- Programming: C++, ROOT, Python (Pandas, Numpy, Seaborn, Matplotlib, Scikit learn)
- Predictive Modelling and Analytics, Machine Learning (Regression, Classification, Clustering)
- Statistics and Probability, Linear Algebra
- Tools: MS Excel, Power BI, Tableau, SQLite

## CERTIFICATIONS

- Quantitative Researcher Virtual Experience Program by JP Morgan Chase & Co. on Forage
- Python for Data Science, offered by IIT Madras on NPTEL
- Foundations and Applications of Machine Learning, offered by IIT Kharagpur on NPTEL

## NON-TECHNICAL SKILLS

Critical thinking, Performance under pressure and deadline, Collaborating mindset, Capabilities as instructor

## AWARDS, HONORS AND ACHIEVEMENT

- Professor Shyamadas Chatterjee Award for Outstanding Scholar, 2019
- Served as the Junior Ambassador, India to the ALICE Collaboration, CERN, Geneva, 2016-2018
- GATE 2013 All India Rank 404

## PROFILES

- LinkedIn - <https://www.linkedin.com/in/rathijit-biswas-ph-d-4127491b6>

I have 9+ years of experience in qualitative and quantitative research and data analysis in global scientific collaboration. Passionate researcher with skills in Statistical Modeling, Monte-Carlo simulation and Machine Learning algorithms. Outstanding communication, organizational and leadership skills with proven record of 10+ publications in international journals with being reviewer of such two. I am looking for exciting opportunities in the industry as Quantitative Researcher/Analyst, Data Scientist to learn and deliver innovative solutions, with the ability to play as a team member or sometimes lead it, as I have done in my time in academia.

## EXPERIENCE

October 2023 - Current

**Machine Learning Engineer Intern Technocolabs Softwares, Indore**

- Tools: Python, Jupyter, ML
- Developing a predictive PD model for a USA based P2P lending client leveraging ML
- Will also determine the allotted Rate of Interest (ROI) for individual customers

March 2022 - August 2022

**Post-doctoral Research Associate, Institute of Modern Physics, Chinese Academy of Sc, China**

- Tools used: C++, ROOT, Python
- Monte-Carlo simulation to optimize CEE-TPC detector pad design
- Learn and develop Machine Learning algorithms and data analysis techniques to infer qualitative & quantitative Physics messages from data recorded by the STAR experiment, BNL, USA

November 2013 - November 2021

**Ph.D Research Scholar, Bose Institute in collaboration with ALICE, CERN, Kolkata/Geneva, India/Switzerland**

- Tools used: C++, ROOT
- Develop algorithms to import, clean, cluster and correct large volume of data and perform quantitative and qualitative analysis to infer useful Physics messages from it.

## EDUCATION

**Certificate Programme, Applied Data Science (Pursuing) WorldQuant University, New Orleans, USA**

2021

**Doctor of Philosophy, Experimental High Energy Physics Bose Institute and CERN, Kolkata and Geneva**

2012

**Master of Science in Physics West Bengal State University, Kolkata**

2010

**Bachelor of Science in Physics (Major), Mathematics (Minor) University of Calcutta, Kolkata**