

SAGNIK BISWAS

Data Science Enthusiast

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EXECUTIVE SUMMARY

Data Science enthusiast pursuing M.Sc. Big Data Analytics at RKMVERI with specialized expertise in distributed computing and advanced machine learning applications. Demonstrated proficiency in developing scalable CNN architectures using PyTorch & Ray framework, and implementing ASR models for Bengali-English code-switching applications. Strong analytical foundation with research capabilities and practical implementation experience in statistical modeling.

ACADEMIC CREDENTIALS

Master of Science in Big Data Analytics *Current*
RKMVERI, Belur Expected July 2026

Bachelor of Science (Honours) in Mathematics *Completed*
Salesian College, Siliguri July 2023

PROFESSIONAL EXPERIENCE

Online Physics Tutor *Contract*
Private Client, Siliguri January 2024 – March 2024

- Delivered comprehensive online physics instruction for Class 8 student with measurable academic improvement
- Developed customized pedagogical approaches adapted to individual learning requirements
- Implemented interactive methodologies enhancing student engagement and concept mastery

Mathematical Modeling Consultant *Freelance*
Academic Contract, Siliguri September 2022 – October 2022

- Executed mathematical modeling solutions using Desmos and GeoGebra platforms
- Produced comprehensive technical documentation with detailed analytical insights
- Collaborated with academic client(s) delivering solutions within specified timelines

TECHNICAL PROJECTS

Distributed CNN with Ray & PyTorch

- Architected distributed convolutional neural network across multiple nodes(two) using Ray and PyTorch, achieving training efficiency and demonstrating scalable deep learning capabilities

Bengali-English Code-Switching ASR

- Fine-tuned OpenAI Whisper Small model on custom-made Bengali-English dataset, enhancing multilingual speech recognition accuracy for low-resource language applications

Advanced Salary Prediction Analytics

- Conducted comprehensive regression analysis employing multiple statistical techniques, feature engineering, and cross-validation for compensation analytics

TECHNICAL EXPERTISE

Programming: Python

ML & AI: Scikit-learn, PyTorch

Distributed Computing: Ray Framework, PySpark

Data Science: Pandas, NumPy, Matplotlib, Seaborn, Plotly

Statistical Methods: Regression Analysis, Hypothesis Testing, Statistical Modeling

Tools: Git, Jupyter, Linux, Google Colab

ACHIEVEMENTS & RECOGNITION

- First Place Winner** – Students' Seminar & Poster Presentation on Stirling Numbers

ADDITIONAL QUALIFICATIONS

Languages: Bengali (Native), English (Professional), Hindi (Conversational)

Core Competencies: Research Methodology, Technical Documentation, Problem-Solving, Ability to work in a team

Interests: Bengali and English Literature, Playing around with emerging technologies & Technical Research, Playing badminton