SAGNIK BISWAS

Data Science Enthusiast

M.Sc. in Big Data Analytics, RKMVERI, Belur, Howrah, India

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EXECUTIVE SUMMARY

Data Science enthusiast pursuing M.Sc. Big Data Analytics at RKMVERI with expertise in distributed computing and 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.

PROJECTS

Distributed CNN with Ray & PyTorch: Scalable Deep Learning Implementation

Tools: Ray Framework, PyTorch Recent Projet Architected distributed convolutional neural network across multiple nodes using Ray and PyTorch, achieving training efficiency and demonstrating scalable deep learning capabilities

 Bengali-English Code-Switching ASR: Multilingual Speech Recognition Keywords: OpenAl Whisper, Custom Dataset, ASR, Code-switching Recent Project

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: Statistical Modeling & Compensation Analysis

Keywords: Regression Analysis, Feature Engineering, Cross-validation Conducted comprehensive regression analysis employing multiple statistical techniques, feature engineering, and cross-validation for compensation analytics

FREELANCING EXPERIENCE

• Online Physics Tutor

Private Client, Siliguri

Jan.'24 - Mar.'24

- 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

Academic Contract, Siliguri

Sep.'22 - Oct.'22

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

COURSEWORK

- RKMVERI
 - · Deep Learning
 - Natural Language Processing
 - Computer Vision
 - Artificial Intelligence
 - Time Series & Survival Analy-

sis

- Machine Learning
- Statistics
- Econometrics & Finance
- Reinforcement Learning
- Distributed Computing

EDUCATION

 Ramakrishna Mission Vivekananda Educational and Research Institute, Belur

M.Sc. in Big Data Analytics

□ 2024 - Started Expected: July 2026

Salesian College, Siliguri

B.Sc.(Hons.) in Mathematics

Completed July 2023

TECHNICAL SKILLS

- Programming: Python
- ML & Al: 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

ADDITIONAL QUALIFI-CATIONS

- Languages: Bengali (Native), English (Professional), Hindi (Conversational)
- Core Competencies: Research Methodology, Technical Documentation, Problem-Solving, Team Collaboration
- Interests: Bengali and English Literature, Emerging Technologies & Technical Research, Playing Badminton

ACHIEVEMENTS

 First Place Winner – Students' Seminar & Poster Presentation (presented on Stirling Numbers)