

BISWAJIT PAUL

M.Sc. in Big Data Analytics

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, West Bengal, India

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PROJECTS

- **Weather Prediction with Dask:** Distributed pipeline for weather forecasts using Dask
Tools: Python, Dask, xarray, GRIB2 Jan.'25 – Apr.'25, RKMVERI
Faculty: Mr. Champak Dutta
Implemented a distributed data pipeline to process GRIB2 weather data using Dask and xarray for scalable and parallel forecasting.
- **Fake News Detection (BERT):** Fine-tuned BERT on WeLFake dataset achieving 99% accuracy
Tools: Transformers, PyTorch, HuggingFace, NLP Jan.'25 – Apr.'25, RKMVERI
Faculty: Dr. Soumitra Samanta
Developed a BERT-based text classifier to detect fake news; used advanced tokenization, transfer learning, and attention visualization for explainability.
- **ChestX-ray8 Imaging:** CNN + Grad-CAM + U-Net for multi-label chest disease classification
Tools: PyTorch, OpenCV, Grad-CAM, U-Net Jan.'25 – Apr.'25, RKMVERI
Faculty: Br. Bhaswarachaitanya
Combined CNNs with U-Net segmentation and Grad-CAM attention maps to classify and localize multiple diseases from chest X-ray images with medical explainability.
- **Housing Price Regression:** Linear regression with feature selection and diagnostics
Tools: Python, Scikit-learn, EDA Aug.'24 – Sep.'24, RKMVERI
Faculty: Br. Bhaswarachaitanya
Built and evaluated regression models for predicting housing prices using feature selection (Lasso, RFE) and residual diagnostics.
- **Customer Segmentation (RFM):** Behavioral clustering with KPI visualizations
Tools: RFM, Clustering, Power BI Oct.'24 – Dec.'24, RKMVERI
Faculty: Br. Bhaswarachaitanya
Performed RFM-based segmentation of customers to uncover behavioral patterns and visualized KPIs for targeted marketing strategies.

COURSEWORK

- **RKMVERI (M.Sc. Big Data Analytics)**
 - Deep Learning, NLP, Computer Vision
 - Artificial Intelligence, Machine Learning
 - Time Series & Survival Analysis
 - Reinforcement Learning, Statistics
 - Java & Hadoop, Econometrics, Finance
 - Cyber Security
- **Bidhannagar College (B.Sc. Statistics)**
 - Mathematical Statistics, R Programming
 - Linear Algebra, Real Analysis
 - Probability Theory, Sampling Methods

CERTIFICATIONS

- Python for Data Science (Top 5% – NPTEL)
- Machine Learning A-Z
- Deep Learning A-Z
- Data Structures & Algorithms in Python

EDUCATION

- Ramakrishna Mission Vivekananda Educational and Research Institute, West Bengal
M.Sc. in Big Data Analytics
(Expected Graduation: 2026)
📅 2024 – Present (Sem-1) CGPA: 6.09
- Bidhannagar College, West Bengal
B.Sc. (Hons.) in Statistics
📅 Completed CGPA: 8.89
- Jadavpur Vidyapith, Kolkata
Higher Secondary (10+2) and Secondary (10)
📅 Completed Passed

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, \LaTeX
- **Frameworks / Libraries:** Scikit-learn, TensorFlow, PyTorch, BERT, Dask, Pandas, NumPy
- **Distributed Systems:** PySpark, Hadoop, Dask
- **Medical Imaging:** U-Net, Grad-CAM
- **Visualization Tools:** Matplotlib, Seaborn, Power BI
- **Version Control / DevOps:** Git, GitHub, Docker
- **Operating Systems:** Linux (Ubuntu), Windows

SOFT SKILLS

- Fluent in English and effective communicator
- Team-oriented with collaborative mindset
- Calm under pressure and composed in deadlines
- Adaptable, self-motivated, and goal-driven
- Quick learner with analytical thinking

HOBBIES & ACHIEVEMENTS

- Reading, Photography, Gaming, Weightlifting, Swimming