

# Ranesh Mitra

Kolkata, West Bengal | 9477612058 | raneshmitra@gmail.com  
LinkedIn: [linkedin.com/in/raneshmitra](https://www.linkedin.com/in/raneshmitra) | GitHub: [github.com/ranesh88](https://github.com/ranesh88)

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## Professional Summary

Accomplished Data Scientist with over 3 years of experience in AI/ML and a strong background in business operations, specializing in NLP, LLMs, deep learning, and cloud deployment. Developed and deployed 80+ machine learning projects, focusing on finance and NLP solutions. Proficient in Python, SQL, cloud tools (AWS/Azure), and MLOps frameworks. Strong in data-driven insights, model optimization, and driving business results through AI innovations.

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## Core Competencies

- **Machine Learning & AI:** Supervised/Unsupervised Learning, Generative AI (GPT, LLaMa, PaLM), Reinforcement Learning
  - **NLP & LLMs:** Named Entity Recognition, Text Summarization, BERT, GPT, LLaMa
  - **Cloud Deployment:** AWS SageMaker, Azure Cognitive Services, Docker, Flask, Streamlit
  - **Generative AI:** RAG (Retrieval Augmented Generation), LLM, BLOOM, DALL-E
  - **Predictive Modelling:** Time Series Forecasting, Clustering
  - **MLOps:** MLFlow, CI/CD with GitHub Actions, DagsHub
  - **Statistical Analysis:** Hypothesis Testing, Regression, A/B Testing
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## Technical Skills

- **Languages:** Python, SQL (MySQL, PostgreSQL), Java, C++
  - **ML/DL Tools:** TensorFlow, Keras, PyTorch, Scikit-learn
  - **Data Tools:** Pandas, NumPy, Power BI
  - **Cloud & MLOps:** AWS SageMaker, Azure Cognitive Services, Docker, MLFlow, GitHub Actions
  - **Development Tools:** Jupyter, Git, GitHub Actions
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## Professional Experience

### Business Operations Lead

Reliance Jio | 2018–2024

- Increased operational efficiency by 20% and customer satisfaction by 50% through data analytics.
  - Reduced customer complaints by 20%, leading team efforts in process optimization.
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## Internship Experience

### AI and Analytics Intern (Unpaid)

Cloudstats | 2021–2022

*Part of Data Science Master's Certification*

- Developed a text summarization tool that reduced content volume by 60% with an accuracy of 80%.
  - Improved decision-making efficiency by 30% by creating comprehensive machine learning pipelines.
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## Key Projects

1. **Loan Default Prediction**
    - Designed a model using Python and Scikit-learn, achieving 95% precision and reducing loan processing time by 30%.
  2. **Sentiment Analysis for Social Media**
    - Built an 85% accurate sentiment classification model for analyzing 50,000+ posts with Python, NLTK, and Scikit-learn.
  3. **Customer Segmentation for Marketing**
    - Executed segmentation with K-means, improving marketing ROI by 20% through analysis of 50,000+ customer profiles.
  4. **Stock Price Prediction Using LSTM**
    - Achieved a 2.5% MAE in stock price forecasting, outperforming benchmarks by 8%.
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## **Education**

### **Master of Computer Applications (MCA)**

West Bengal University of Technology | 2013

### **B.Sc. in Computer Science**

Calcutta University | 2010

### **Master's Certification in Data Science**

Itvedant Education Pvt. Ltd. | 2022

### **Additional Certifications:**

- Java J2EE
- PHP