**MOITRI DEY**

**AI Engineer | Data Scientist | Generative AI & Automation Enthusiast**  
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**Portfolio:** [Moitri De Portfolio Website](https://maitreed03.github.io/Moitri_de_portfolio/)  
**GitHub**: [MAITREED03 (Moitri(Tanya) De)](https://github.com/MAITREED03)| **Medium**: [Moitri De – Medium](https://medium.com/@maitreede330)| **LinkedIn**: [Moitri De | LinkedIn](https://www.linkedin.com/in/moitri-d-8aabba214/)

## PROFILE SUMMARY

Motivated and passionate AI Engineer and Data Science Enthusiast with an MBA in IT & HR and hands-on experience developing real-world projects in Machine Learning, NLP, and Generative AI. Skilled in Python, SQL, LangChain, RAG pipelines, and Power BI, I design intelligent systems that transform raw data into actionable insights. As a fresher, I bring curiosity, creativity, and a strong foundation in analytical thinking and automation — eager to contribute to data-driven innovation and AI-powered transformation.

## SELECTED PROJECTS

* **Social Media Automation | n8n + OpenAI + Google Sheets**

[MAITREED03/social\_media\_automation](https://github.com/MAITREED03/social_media_automation)

Automated LinkedIn content generation and posting workflows using GPT-4 and n8n. Reduced manual work by 90%, generating 30+ optimized posts weekly.  
Tech: OpenAI API, n8n, Google Sheets API, Prompt Engineering

* **MindEase – Your AI Mental Health Companion**

[MindEase: Your AI Mental Health Companion · Streamlit](https://mindease-n9wazxqvqvwwjgxwnagtrz.streamlit.app/)

Developed an NLP-powered AI chatbot for emotion analysis and journaling support. Achieved 87% emotion detection accuracy with fine-tuned transformer models.  
Tech: Streamlit, LangChain, Transformers, NLP, Sentiment Analysis

* **Text-to-SQL Query Generator**

[MAITREED03/TEXT-TO-SQL](https://github.com/MAITREED03/TEXT-TO-SQL)

Built a natural-language-to-SQL converter using LaMini-Flan-T5 (Hugging Face). Automated 80% of SQL query generation, enabling instant data insights.  
Tech: Python, Transformers, NLP, SQL

* **LSTM & GRU-Based Sales Forecasting**

[MAITREED03/sales\_forecasting](https://github.com/MAITREED03/sales_forecasting)

Predicted future sales trends using LSTM & GRU models, achieving 28% higher accuracy vs baselines.  
Tech: TensorFlow, Keras, Pandas, Matplotlib

## EDUCATION

Master of Business Administration (MBA) – IT & Human Resources | University of Engineering & Management | 2021–2023

Master in Data Science – PW Skills | 2023–2025

B.Sc. Nursing – Fortis Institute of Nursing | 2016–2021

## INTERNSHIP EXPERIENCE

* Bharat Intern – Data Science Intern | Jan–Feb 2024  
  Built and deployed a CNN image classifier (95.4% accuracy) using TensorFlow + Flask.
* CodSoft – Data Science Intern | Feb–Apr 2024  
  Developed fraud detection (98% accuracy) & sales forecasting (R² = 0.91) models.
* CongoRise Infotech – Data Science Intern | Feb–Mar 2024  
  Conducted EDA on 1M+ cinema sales records, improving ROI prediction by 12%.

## TECHNICAL SKILLS

**Programming**: Python, SQL, R (Basics), Excel  
**Data Handling**: NumPy, Pandas, Matplotlib, Seaborn, Plotly  
**Machine Learning**: Regression, Classification, Clustering, Feature Engineering, Cross-Validation, Model Evaluation  
**Deep Learning**: TensorFlow, Keras, PyTorch, CNN, LSTM, GRU  
**NLP**: Hugging Face Transformers, spaCy, NLTK, Sentiment Analysis, NER, Text-to-SQL, Conversational AI, Prompt Engineering  
**Generative AI**: LangChain, RAG, ChromaDB, FAISS, Pinecone, OpenAI API, Groq, Phi Models, LLM Orchestration, Multi-Agent Systems  
**Automation & Deployment**: n8n, Streamlit, Flask, Docker, API Integration, ETL Pipelines  
Visualisation & BI: Power BI, Tableau, DAX, Power Query, Plotly  
**Cloud & DevOps**: AWS (S3, EC2), Azure, Google Colab, Git, GitHub, VS Code  
**Mathematics & Statistics:** Linear Algebra, Probability, Statistics, Calculus for ML, Time Series Forecasting  
**Soft Skills**: Analytical Thinking, Data Storytelling, Communication, Collaboration, Creativity

## CERTIFICATIONS

🎓 Data Science Masters – PW Skills

🎓 Generative AI Series – EURON

🎓 Agentic AI – Krish Naik

🎓 Linear Algebra – 3Blue1Brown

🎓 Calculus for ML – Andrew Ng

🎓 Statistics – Khan Academy

🎓 NLP with Deep Learning – Stanford University

## ADDITIONAL EXPERIENCE

Sales Manager | Mar–Aug 2022  
Achieved 120% of sales targets and trained 5+ associates in data-based decision-making.