Debasmita Chatterjee

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Technical Skills

Languages: Python, R, SQL
Machine Learning and AI: TensorFlow, Keras, PyTorch, Scikit-learn, Reinforcement Learning, NLP (BERT, GPT, LSTM), Computer Vision
Data Science: Pandas, NumPy, Feature Engineering, Statistical Modeling
Visualization and BI: Tableau, Power BI, Streamlit, Plotly, Excel
Big Data and Tools: Apache Spark, Google Colab, Jupyter Notebook, Git, GitHub, RStudio, Visual Studio Code
Additional: Blender, Unity

Education

Lovely Professional University B.Tech in Computer Science and Engineering, Jalandhar, Punjab	CGPA: 6.98
DAV Public School Intermediate, Rupnarayanpur, West Bengal	Percentage: 75
Green Point Academy Matriculation, Kulti, West Bengal	Percentage: 84

Experience

AI Trainer – Outlier.ai (Remote)

- Conducted **prompt engineering and model evaluation** for LLMs, improving response accuracy and reasoning by **25%** through iterative feedback.
- Designed, tested, and refined **AI prompts** across multiple domains, increasing output clarity and contextual relevance by **30%**.
- Collaborated in **Reinforcement Learning with Human Feedback -based fine-tuning** and **data quality enhancement**, driving a **20% improvement** in model consistency and adaptability.

Projects

GenAI-Driven Pricing Optimization Engine *(TensorFlow, Keras, PPO, Streamlit)* **[GitHub]**

- Built a **GenAI-based dynamic pricing system** using Proximal Policy Optimization to optimize real-time pricing and recommendations.
- Designed a **reinforcement learning environment** with actor-critic networks and deployed an interactive **Streamlit dashboard** for performance visualization.

SmartStyle Analytics *(Streamlit, Plotly, Tableau, Machine Learning)* **[GitHub]**

- Developed an **AI-powered fashion recommendation system** integrating data science and visualization tools for retail analytics.
- Created **interactive Power BI dashboard** to analyze brand performance, pricing trends, and customer behavior for data-driven insights.

AI-Powered Return Validation System *(TensorFlow, Scikit-learn, NLP, Computer Vision)* **[GitHub]**

- Built an **AI-driven return validation system** using NLP and computer vision for automated defect detection and fraud prevention.
- Developed **transformer and CNN models** achieving **90%+ accuracy**, with **Streamlit and Tableau dashboard** for risk and sentiment analysis.

Certifications

Google Advanced Data Analytics – Coursera	Aug 2025
IBM Generative AI Engineering – Coursera	Aug 2025
Microsoft AI & ML Engineering – Coursera	Aug 2025
Microsoft Power BI Data Analyst – Coursera	Aug 2025
Learn SQL Basics for Data Science – Coursera	Sep 2025
**MLOps	Machine Learning Operations – Coursera**	Sep 2025
Oracle Cloud Infrastructure 2025 Data Science Professional (1Z0-1110-25) – Oracle (70%)	Oct 2025