Pragyan Jyoti Dutta

London, United Kingdom

 \bigcirc pragyan-dutta.netlify.app

pp | ♀ github.com/cyber-prags ↓ pragyan.jyoti.dutta01@gmail.com In linkedin.com/in/pragyan-jyoti-dutta
+44-7407747069

About Me

Proactive and detail-oriented **Data Scientist** with expertise in statistical modeling, machine learning, large-scale data analytics, and dashboard development (Tableau, PowerBI). Proficient in **Python, SQL**, and **distributed data frameworks (GCP, AWS, Azure)**, specializing in building optimized **ETL pipelines**, executing rigorous **A**/**B** tests, and developing scalable data-driven solutions. Skilled at collaborating cross-functionally to deliver end-to-end projects, translate complex data into actionable visual insights, and streamline workflows to enhance operational efficiency. Passionate about leveraging data science and machine learning to drive strategic decision-making, user growth, and global business impact in dynamic, innovation-driven environments.

PROFESSIONAL EXPERIENCE

Jun 2024 - Jul 2025 London, UK
Aug 2022 - Feb 2023 Atlanta, US(remote)
Apr 2022 - Sept 2022 Dehradun, India
Sept 2021 - Oct 2021 India

EDUCATION

University of Liverpool, United Kingdom MSc. in Data Science and Artificial Intelligence

Indian Institute of Technology, Madras, India Online Diploma in Data Science

Tezpur University, India BSc. in Physics

Sept 2023 - Aug 2025 GPA: 1st class(on course)

Jan 2022 - Sept 2023 GPA: 7.75/10.0

Oct 2020 - Jun 2023 GPA: 8.06/10.0

Projects

Multi Agent AI Hedge Fund

Personal Project

• Engineered an end-to-end solution deployed in Streamlit using 8 advanced LLM agents powered by **Perplexity Sonar API** & LangChain that aggregates financial data, sentiment, technical signals, and risk metrics to drive data-backed investment decisions that reduced analysis turnaround time by 50%, delivering comprehensive market insights in under 1 minutes per ticker with over 85% predictive accuracy.

Route Optimisation for Starbucks Delivery in London

Personal Project

• Innovated and implemented a graph-based route optimization model using **Dijkstra's algorithm** to minimize delivery times and streamline logistics for Starbucks cafes in London. Optimized pathfinding to ensure timely deliveries, resulting in a **37% improvement** in delivery speed and a **20% reduction** in operational costs compared to unplanned deliveries.

Academic Research Paper Information Retrieval System

Personal Project

• Implemented a **Retrieval Augmented Generation (RAG) system** empowering researchers and students to upload and interact with academic papers, enhancing information accessibility and estimated to enhance productivity in research by 43%.

Uber Analytics ETL Project

Personal Project

- Leveraged Google Cloud Storage and Big Query to manage and analyze data.
- Established a robust ETL pipeline with Mage Data Tool, improving data processing speed by 40%, enhancing overall workflow efficiency.
- Created interactive dashboards in **Google Looker Studio**, facilitating a significant improvement in strategic decision-making efficiency through clear data visualizations providing valuable insights into the working of Uber, which can be leveraged for better customer service and increasing revenue.

Churn Model Predictor

Personal Project

- Defined a sophisticated **Churn Model Predictor** using **Google BigQuery**, integrating **Google LookerStudio** for advanced dashboarding and analytics.
- Leveraged **AutoML** for efficient and accurate predictive modeling in forecasting employee turnover that aided Human Resources in strategizing employee retention, reducing churn rates across departments through data-powered recommendations.

Sentiment Prediction on Movie Reviews

MLP Project , IIT Madras

• Built an NLP-based sentiment analysis model using Naive Bayes and LSTMs, achieving 85% accuracy in predicting movie sentiments.

TECHNICAL SKILLS

Programming Languages: Python, R, C++, Java, Scala	Machine Learning: scikit-learn, XGBoost, TensorFlow, Py- Torch, Keras, statsmodels, Prophet, QuantLib, KDB+
Data Wrangling: NumPy, Pandas, SciPy, Apache Spark, Hadoop	Databases & Warehousing: SQL, PostgreSQL, MySQL, NoSQL (MongoDB, Cassandra), Snowflake
Data Visualization: Plotly, Tableau, Power BI	Cloud & MLOps: AWS, Azure, GCP, Kubernetes, MLflow
Publications	

IEEE Xplore: Health Risk Detection through Web App using Machine Learning

• Developed an AI based disease risk detection system using **Naive Bayes** and **Random Forests**, enabling **early diagnosis** through automated analysis of initial reports.

Relevant Certifications

Mar 2025 Click to view

Nov 2024 Click to view

Oct 2024 Click to view

Jan 2024 Click to view

Dec 2023 Click to view

Jun 2023 - Aug 2023 Click to view

> April 2022 Publication Link

Feb 2025 Certificate Link