






Pragyan Jyoti Dutta

London, United Kingdom

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ABOUT ME

Data Scientist specializing in Machine Learning & AI-driven solutions for businesses and driving digital transformation. Skilled in Python, and cloud-services like Amazon Web Services, GCP, Azure. Proven ability to extract actionable insights, optimize workflows, and drive innovation in fast-paced environments. Experienced in developing scalable AI models, automating decision-making, and leading data-driven strategies that enhance business impact. Adaptable and globally minded, excelling in collaborative, high-growth settings, contributing to emerging technologies and digital transformation initiatives.

PROFESSIONAL EXPERIENCE

Global Sales Planning Analytics Intern

Siemens Digital Industries Software

Jun 2024 - Jul 2025

London, UK

- Developed interactive dashboards using Tableau, Power BI, and Salesforce to support strategic business planning and monitor KPIs.
- Facilitated the Global Integrated Country Planning program at Siemens DI SW, driving improved sales planning effectiveness through strategic data analysis and forecasting.
- Designed advanced analytical visuals, proposed new application features, and created comprehensive documentation for seamless usability and scalability.

Data Engineering Intern

Developer As a Service(DaaS)

Aug 2022 - Feb 2023

Atlanta, US(remote)

- Led a cross-functional team to analyze and process over 21,000 textual image data using OCRs to lessen processing times and engineer a pipeline for automatic information retrieval for advanced legal research services.
- The refined pipeline resulted in an impressive 80% increase in efficiency for legal document processing within the firm.

Machine Learning Research Intern

Spartificial

Apr 2022 - Sept 2022

Online, India

- Optimized Pulsar Star Detection in imbalanced datasets by applying classification algorithms achieving a model accuracy of 93.5% and analyzed the impact of Dimensionality Reduction and Resampling application order on model accuracy.

EDUCATION

University of Liverpool, United Kingdom

MSc. in Data Science and Artificial Intelligence

Sept 2023 - Aug 2025

GPA: 1st class(on course)

Indian Institute of Technology, Madras, India

Online Diploma in Data Science

Jan 2022 - Sept 2023

GPA: 7.75/10.0

Tezpur University, India

BSc. in Physics

Oct 2020 - Jun 2023

GPA: 8.06/10.0

PROJECTS

Multi Agent Customer Support Assistant

Personal Project

Dec 2024

[Click to view](#)

- Deployed a multi-agent customer support system using LangFlow and AstraDB, enabling autonomous task delegation to specialized AI agents.

Route Optimisation for Starbucks Delivery in London

Personal Project

Nov 2024

[Click to view](#)

- 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

Oct 2024

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- Implemented a 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%.
- Implemented Google Vertex AI for advanced text extraction and designed a conversational interface, facilitating accurate question-based information retrieval from uploaded PDFs.
- Built with Streamlit, allowing seamless deployment, and integrated with Google Cloud for efficient data handling and processing.

Uber Analytics ETL Project Personal Project <ul style="list-style-type: none"> Leveraged Google Cloud Storage and Big Query to manage and analyze data, demonstrating deep expertise in cloud-based solutions. 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. The project provides valuable insights into the working of Uber, which can be leveraged for better customer service and increasing revenue. 	Jan 2024 Click to view
Churn Model Predictor Personal Project <ul style="list-style-type: none"> 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. Aided Human Resources in strategizing employee retention, reducing churn rates across departments through data-powered recommendations. 	Dec 2023 Click to view
Sentiment Prediction on Movie Reviews MLP Project , IIT Madras <ul style="list-style-type: none"> Built an NLP-based sentiment analysis model using Naive Bayes and LSTMs, achieving 85% accuracy in predicting movie sentiments. 	Jun 2023 - Aug 2023 Click to view

TECHNICAL SKILLS	
Programming languages: Python, R ,C++	ETL Tools: Mage, Snowflake, Mage, DBT , Knime
ML/AI: LangChain, AutoML, Tensorflow, Pytorch, Numpy, Pandas, Matplotlib, Plot-ly, Scikit-learn, Keras, OpenCV	Cloud Technologies: Amazon Web Services, Azure, GCP
Web Technologies: Node.js, React, Django, HTML, CSS, JavaScript	Miscellaneous: Tableau, PowerBI, LookerStudio, SQL

PUBLICATIONS	
IEEE Xplore: Health Risk Detection through Web App using Machine Learning <ul style="list-style-type: none"> Developed a web-based disease risk detection system using Naive Bayes and Random Forests, enabling early diagnosis through automated analysis. 	April 2022 Publication link

RELEVANT CERTIFICATIONS	
Amazon Web Services Certified AI Practitioner Amazon Web Services	Certificate Link Feb 2025
Generative AI with Large Language Models DeepLearning.AI	Certificate Link Dec 2023