

PRABHAT DHAR

Data Analyst | Python | SQL | Power BI | Machine Learning | MLOps | DevOps

📍 London, UK ✉ prabhatdhar32@gmail.com in LinkedIn 🐙 GitHub

📁 Portfolio

PROFESSIONAL SUMMARY

Data Analyst with expertise in transforming raw data into actionable insights through Python, SQL, and advanced visualization tools. Strong background in implementing end-to-end ML pipelines, CI/CD automation, and containerized deployments. Committed to leveraging data science, MLOps, and DevOps practices to drive data-driven decision-making.

EDUCATION

PG Diploma in Data Science and Its Application University of Essex, Colchester, United Kingdom	<i>November 2022</i> 165 Credits
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Bachelor's in Physics University of Calcutta, West Bengal, India	<i>August 2021</i> 7.240 CGPA
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I.S.C (12th) St. Xavier's Institution, Kolkata, India	<i>April 2017</i> 85%
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I.C.S.E (10th) St. Xavier's Institution, Kolkata, India	<i>April 2015</i> 93.8%
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TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, HTML, CSS, LaTeX
Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI, Tableau, Excel
Machine Learning: Scikit-learn, TensorFlow, PyTorch, PyCaret, Statsmodels, OpenAI GPT-4
DevOps & MLOps: Docker, Kubernetes, Jenkins, CI/CD, Git, GitHub
Web Development: FastAPI, Streamlit, Flask, Uvicorn
Tools: Jupyter, Google Colab, VSCode, Linux/Unix

KEY PROJECTS

Health and Fitness AI App

GitHub: [Xclipxz07/Health-and-Fitness-AI-App](#)

- Developed AI-powered health and fitness application providing personalized recommendations, fitness tracking, and wellness insights based on user health data and behavioral patterns
- Integrated ML algorithms to analyze workout history, nutrition, sleep patterns, and goals, delivering customized fitness plans tailored to individual needs
- Utilized neural networks and recommendation systems to predict fitness outcomes, identify health trends, and suggest optimal exercise routines
- Built backend with Python leveraging Scikit-learn, TensorFlow, and PyTorch for robust predictive modeling and pattern recognition
- Created interactive dashboards with Matplotlib, Seaborn, and Plotly displaying user progress, fitness metrics, and personalized insights
- Implemented Streamlit web framework for real-time health data input, recommendations, and AI-powered fitness guidance
- Tech Stack:** Python, Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Streamlit, Matplotlib, Seaborn, Plotly

Rainfall Prediction Using ML Models (Dissertation Project)

GitHub: [Xclipxz07/Rainfall-prediction](#)

- Developed ML dissertation project forecasting rainfall based on historical Australian weather patterns
- Conducted comprehensive EDA to understand weather patterns, correlations, seasonal trends; performed data cleaning including handling missing values and outliers
- Implemented multiple algorithms: Logistic Regression, Random Forest, Gradient Boosting, Neural Networks to identify most effective predictor
- Leveraged PyCaret AutoML library to automate workflow including feature engineering, hyperparameter tuning, and model selection
- Performed comprehensive evaluation using accuracy, precision, recall, F1-score, ROC-AUC curves, and confusion matrices
- Created interactive visualizations using Matplotlib, Seaborn, and Plotly to illustrate patterns, model performance, and predictions
- Developed detailed dissertation using LaTeX with literature review, methodology, results analysis, and conclusions
- Tech Stack:** Python, PyCaret, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Statsmodels, LaTeX

Data Analysis for DevOps, MLOps & GenAI

GitHub: [Xclipxz07/DATA-ANALYSIS-FOR-DEVOPS-MLOPS-GENAI](#)

- Built production-ready sales forecasting system combining ML, generative AI, and DevOps practices
- Implemented end-to-end ML pipeline with SQLite database, Jupyter Notebook, Linear Regression, and OpenAI GPT-4 integration
- Developed scalable REST API using FastAPI with endpoints (`/sales`, `/predict`) and auto-generated documentation

- Containerized application using Docker enabling consistent deployment across environments and production scalability
- Orchestrated deployment using Kubernetes with configurations supporting horizontal scaling, load balancing, and high availability
- Implemented complete CI/CD pipeline using Jenkins for automated testing, building Docker images, and Kubernetes deployment
- Created interactive visualizations using Plotly for sales trend analysis and Power BI dashboards for business intelligence
- Developed technical documentation using LaTeX covering architecture, ML methodology, API specs, deployment procedures
- **Tech Stack:** Python, Jupyter, SQLite, Scikit-learn, OpenAI GPT-4, FastAPI, Plotly, Power BI, Docker, Kubernetes, Jenkins, LaTeX

CORE COMPETENCIES

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| • Machine Learning & Predictive Modeling | • API Development & Integration |
| • Data Cleaning & Preprocessing | • Containerization (Docker) |
| • Feature Engineering & Selection | • Orchestration (Kubernetes) |
| • Exploratory Data Analysis (EDA) | • CI/CD Pipeline Automation |
| • Data Visualization & Storytelling | • Technical Documentation |
| • Business Intelligence Dashboards | • Problem Solving & Critical Thinking |
| • SQL Query Optimization | • Version Control (Git/GitHub) |

References available upon request