PRABHAT DHAR

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

London, UK prabhatdhar32@gmail.com 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. Eligible to work in the UK (Currently on Skilled Worker Visa) — available up to 20 hrs/week.

EDUCATION

PG Diploma in Data Science and Its Application *November 2022*
University of Essex, Colchester, United Kingdom 165 Credits

Bachelor's in Physics *August 2021*
University of Calcutta, West Bengal, India 7.240 CGPA

I.S.C (12th) *April 2017*
St. Xavier's Institution, Kolkata, India 85%

I.C.S.E (10th) *April 2015*
St. Xavier's Institution, Kolkata, India 93.8%

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

DevOps & MLOps: Docker, Kubernetes, Jenkins, CI/CD, Git, GitHub

Web Development: FastAPI, Streamlit, Flask, Uvicorn

Tools: Jupyter, Google Colab, VSCode, Linux/Unix

WORK EXPERIENCE

EVERYCARE LTD — Care Assistant & Data Analyst (April 2023 – Present)

- Delivered person-centred care and recorded clinical observations, medication updates and activity logs in digital care systems while ensuring GDPR and safeguarding compliance.
- Maintained and cleaned care records in Excel; created pivot reports and simple dashboards to track incident logs, attendance and staff allocation for shift leaders.
- Analysed care-related trends using Power BI to highlight attendance patterns, risk indicators and medication timings; communicated weekly summaries to senior staff.
- Wrote basic Python scripts to organise and preprocess care logs, reducing manual workload and improving data accuracy for reporting.
- Prepared visual weekly summaries (response times, service-user progress, staffing) to assist operational decision-making.

KFC (Demipower Ltd, Wood Green) — Team Member (January 2021 – March 2023): Delivered fast, friendly service in a high-pressure environment; upheld hygiene, safety and quality standards. Handled transactions, managed orders during peak periods and supported shift leaders by updating checklists and inventory logs. Developed reliability, punctuality, teamwork and the ability to communicate under pressure — transferable skills for stakeholder collaboration in analytics.

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

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

CERTIFICATION:

1. English SELT ISE 1 : Trinity College (Distinction in Writing, Speaking & Listening; Merit in Reading)
2. DBS Certification — All checks passed

LANGUAGES:

English • Hindi • Bengali

References available upon request