ABDUL SAMAD

Data Analyst | ML Engineer

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Results-driven data professional with expertise in business intelligence, data visualization, ETL development, machine learning, and ERP systems. Proficient in SQL, PL/SQL, Python, Java, and cloud-based tools to build optimized data pipelines and automate reporting. Skilled in developing ML models to uncover insights, predict trends, and improve decision-making. Experienced with Power BI, Apache Airflow, and modern data platforms in dynamic, fast-paced environments.

EXPERIENCE

1- **Diamond Super Market** [JUNE-2024] to [FEB-2025]
Designed and developed interactive dashboards using complex SQL queries and Power BI, incorporating Row-Level Security (RLS), SSAS models, dataflows, and data marts. Applied incremental refresh and archive partitioning to optimize performance. Experienced in writing PL/SQL scripts and stored procedures to automate data workflows. Strong foundation in database design, aligning well with ERP system requirements.
2- **PAKISTAN MACHINE TOOL FACTORY** [DEC 2024] to [APR 2025] (HYBRID FREELANCE PROJECT)
3- **PWC** [Aug 2025] to [Present]
Oracle SQL, PL/SQL, Oracle APEX, Oracle EBS, Oracle Fusion Cloud, TOAD, SQL Developer

PROJECT HIGHLIGHTS

(MLOPS & DATA ENGINEERING PROJECTS)

1. Developed an automated ETL pipeline using Apache Airflow to extract, transform, and load weather data from multiple geographic locations into a PostgreSQL database. The pipeline collects real-time weather data via APIs, processes and cleans it using Python (Pandas, NumPy), and loads it into a structured database for analysis. Scheduled daily DAG runs ensure timely updates, while logging and error-handling mechanisms help track failures and automate retries. The system improves data reliability and accessibility, supporting advanced analytics and reporting. Technologies used include Apache Airflow, PostgreSQL, Python, and SQL.
2. The MLOPS-based Airline Customer Analytics System automates data processing, model training, and deployment with DVC and CI/CD pipelines (Jenkins). It integrates Docker for containerization, ML-flow for monitoring, and custom exception handling for efficient debugging. This scalable and reproducible system enables airline customer behavior analysis and predictive modeling.
3. This MLOPS-driven Vehicle Insurance Risk Prediction system automates the ML lifecycle using Python, Scikit-learn, TensorFlow/Py-Torch, and CI/CD pipelines. It features modular components for data processing, model training, and deployment with Docker and Fast-API/Flask. The system integrates Power BI for visualization and leverages cloud platforms (AWS/Azure/GCP) for scalability.

(DATA BASE PROJECTS)

SQL Server Data Warehouse Project: Designed and implemented a comprehensive SQL Server Data Warehouse to integrate data from ERP and CRM systems, supporting advanced analytics and strategic business reporting. The architecture followed the medallion layer pattern—Bronze for raw data ingestion from CSV files, Silver for data transformation and enrichment, and Gold for star schema modeling optimized for reporting.

(POWER BI & DATA SCIENCE Projects):

1-**Winter Sales Forecasting:** This project uses SARIMA to forecast sales for Coffee, Dry-Fruit, and Soup, capturing seasonality, trends, and autocorrelation for each category. The results are visualized in Power BI, with actual vs. forecasted sales displayed inline charts, and key metrics like MSE and AIC shown in card visuals. Seasonal trends and forecasts are further explored using decomposition charts, with interactive slicers for product categories. This comprehensive approach helps businesses optimize stock management, sales strategies, and performance monitoring.

2-**Stock Price Prediction:** This project builds a deep learning model for time-series forecasting using an LSTM network with four layers (50, 60, 80, 120 units) to capture temporal dependencies. Dropout layers are used to prevent overfitting, and the model outputs predictions through a Dense layer. Designed for time-series data, it's ideal for applications like stock price prediction or weather forecasting, aiming to enhance accuracy while reducing overfitting risks.

3-Employee Churn Prediction: Developed an Employee Churn Prediction System using machine learning models like Random Forest-Classifier and XGB-Classifier, optimized with Grid-Search-CV for hyperparameters. A Flask-based interface allows real time employee data input and predictions. This project highlights expertise in machine learning, hyper-parameter tuning, and full-stack development for improving employee retention strategies.

Remaining Power BI & DS Projects:
(HR Analytics, Sales Analysis, Purchase Analysis, Sales-Purchase Ratio Analysis, Income-Statement, Customer Analytics, Employee Performance, Internal-Audit Expense Analysis, Finance Dashboard, Risk Management) **Dashboards**. (Potato Disease Classification, Restaurant Price Prediction, Flight Price Prediction, Sentiment Analysis using NLP) **DS**.

Technical Skills

- Databases: SQL, PL/SQL, MSSQL, Postgres
- Programming: Python, C#, Java, SK-Learn, DL
- Business-Intelligence: Power-BI, Microsoft-Fabric, Excel.
- OOP Concepts: Inheritance, Polymorphism, Abstraction, Encapsulation
- ERP: SAP B-ONE, ORACLE
- Soft Skills: Analytical thinking, teamwork, adaptability

Education:

BS(Artificial-Intelligence): Dawood University of Engineering and Technology [2021-June2025] Diploma In Artificial Intelligence Developer: PIAIC.
Certified Python and ML Developer: E-Hunar.