

MUHAMMAD ABUBAKAR AFTAB

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SKILLS

Programming: PYTHON, C++, JAVA, R

Databases: SQL Server 2008, MySQL, PostgreSQL

Other: Springboot, Pyspark, Airflow, ETL/ELT, Sklearn, BeautifulSoup, Numpy, Pandas, Power BI, Matplotlib, GitHub

Soft Skills: Excellent communication skills, Strong analytical skills and problem-solving skills

GDPR Compliance: Knowledge and experience with GDPR data privacy and compliance

EXPERIENCE

Professional Freelancer – Birmingham

Jun 2023 – Present

- **Achieved 97% accuracy** in stroke prediction using Random Forest and statistical analysis in **R**.
- Designed an end-to-end **ETL** pipeline for Tokyo Olympics data using **Azure services**.
- Led COVID-19 analysis, automating ETL with **Python, Airflow, and BigQuery**, and visualizing in Power BI.
- Performed **data scraping** to extract customer reviews and behavior data, enabling sentiment analysis for BA.

Data Analyst (Industrial Placement) – MEGANEXUS, London

Jan 2023 – Jun 2023

- Reduced **response time by 20%** by building a **Rasa** chatbot to automate customer support.
- Improved **A&E visitor forecasts by 10%** by building a **SARIMAX** model on 15 years of data.
- Boosted **patient recovery rates by 15%** by leading a **Power BI** initiative using statistical analysis.
- Automated and processed daily **healthcare data** using Python & Airflow, **reducing errors by 30%**.
- Communicated technical concepts clearly to **non-technical stakeholders**, ensuring effective collaboration.

Associate Software Engineer – SYSTEMS LTD, Lahore

May 2021 – Jan 2022

- Created **Springboot** module for automated commission and discount calculations in sales transactions.
- Automated cash management with Springboot, enhancing efficiency and streamlining processes.
- Constructed user-friendly **REACT**-based frontend for enhanced financial report accessibility and design.
- Integrated **Microservices** with REACT, demonstrating deep expertise in working with **REST APIs** and JSON scripts.
- Applied **HTML, CSS, Bootstrap** to develop responsive web design.

PROJECTS

- **Solar Panel Detection using Deep learning (Masters Project):** Developed advanced deep learning model with Faster R-CNN and YOLO, attaining **90% accuracy** for solar panel identification in aerial images.
- **British Airways Customer Behaviour Analysis [ML]:** Predicted customer behavior using machine learning models like **Random Forest and XGBoost**, increasing **conversions by 15%**.
- **Airline Reservation System [ORACLE, SQL]:** Designed and built an airline reservation system using Oracle DB, optimizing performance through clustering and partitioning.

EDUCATION & PROFESSIONAL QUALIFICATIONS

Birmingham City University

Jan 2022 – Jun 2023

Master of Science in Big Data Analytics with Professional Placement (Merit)

FAST NUCES, Islamabad

Jan 2016 – Feb 2021

Bachelors of Science in Computer Science (STEM)

CERTIFICATIONS

DP-900 Microsoft Azure Data Fundamentals

October 2023