



Hassaan Mumtaz Ali

BSc. (Electrical Engineering) - Computer Engineering

Preferences: Data Analytics, Data Engineering, Data Science.

Education

National University of Computer and Emerging Sciences (FAST-NU), LAHORE

BS Electrical Engineering -Majors(Computer Engineering)

September 2018- July 2022

CGPA: 2.79(Current)

Aitchison College, Lahore

Advanced Levels (A' Levels):

September 2015-May 2017

Ordinary Levels (O' Levels):

September 2012-May 2015

Date of Birth

6/19/1999

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House #151, Model
Town,Lahore

LinkedIn

linkedin.com/in/hassaan-ali-904b671ba/

GitHub

<https://github.com/HassaanMumtaz>

Tools:

SQL-Server,
Python(Jupyter), Pandas,
Seaborn, PySpark, AWS
Boto, AWS Glue, AWS
Athena, AWS EC2, Azure
SQL,

Skills:

SQL, NoSQL, Big Data,
Database Designing,
Data Cleaning,
Data Visualization,
Data Streaming,
Data Warehousing,
Data Pipelining,
Supervised and

Projects & Portfolio

Smart Car Parking Management System (Final Year Project)

<https://github.com/HassaanMumtaz/Smart-Car-Parking-Management-System-Final-Year-Project-.git>

Implemented an API based architecture for managing and parking cars in University Parking Area, using WiFi devices(ESP-8266) for data collection and checking parking availability , Raspberry Pi for User Authentication using OpenCV and PyTesseract, React.js for Front-End, Firebase for Backend Database, and Python(Pandas,Seaborn) for Data Cleaning and Dashboarding.

IoT-based Smart Weather Monitoring System

<https://github.com/HassaanMumtaz/IoT-based-Smart-Weather-Monitoring-System.git>

Implemented an IoT based remote device capable of sending essential temperature readings from remote areas to a Front-End(HTML, Materialize CSS, J-query) integrated with SQL Scripting(MySQL) to output readings to a web-page.

Airport Management System

<https://github.com/HassaanMumtaz/Airplane-Management-System.git>

Implemented an Airport Management System for Flight Management and Flight Control using SQL Server and Express.js for Back-End, and React.js for Front-End

Honors & Certificates



Data Engineer with Python (Data Camp)



AWS Academy Machine Learning Foundations (Amazon Web Services)



Microsoft Certified: Azure Fundamentals



Data Engineering Nano-degree Program (Udacity)

Professional Experience

Addo.ai (June 2022 – Present)

Telenor Pakistan's Data Engineering Pipeline(July 2022 – December 2022)

Tools Used: Spark,Vertica, HDFS, QlikSense

- Responsible for working on Apache Hadoop ecosystem with Cloudera and Hortonworks.
- Perform data processing, analysis, and problem-solving on data provided by Telenor using Vertica as Data Warehouse, and perform data analytics and timely ETL execution throughout the system.

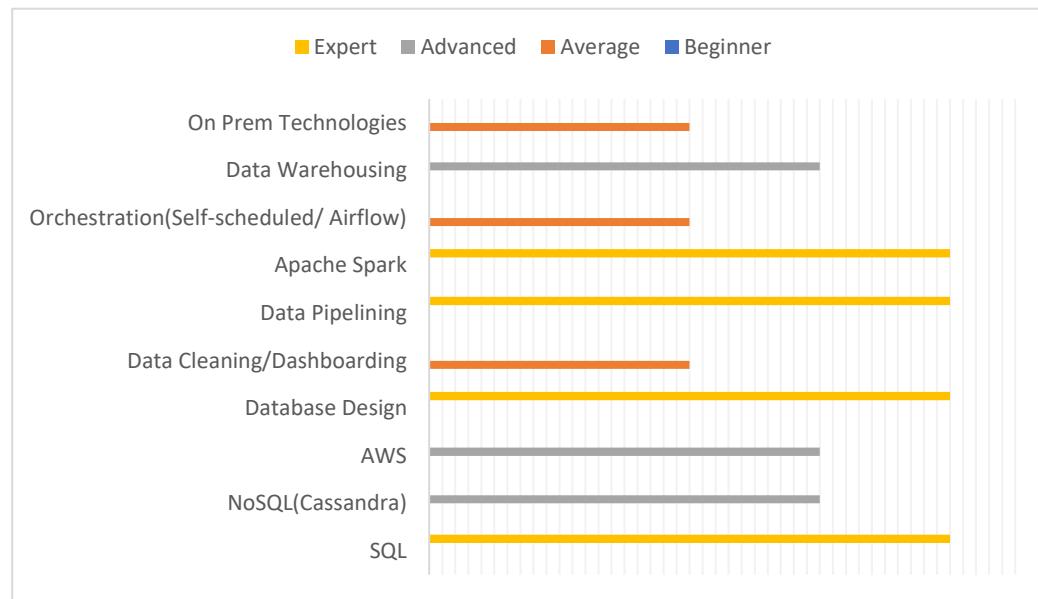
Climate Alpha's Data Engineering Pipeline(January 2022 – Today)

Tools Used: AWS Glue, AWS Lambda, AWS Athena

- Creating an ETL mechanism from scratch using AWS Glue as ETL tool, to process files placed in S3.
- Creating Spark jobs to crawl S3 tables till CURATED layer, and creating FACT tables on Semantic layer
- Deploying a Glue based orchestration mechanism to run created Glue Jobs for all defined layers
- Perform analysis on data using AWS Athena to prove consistency throughout the ETL process.
- Dropping costs for ETL execution from completely manual processing to entirely automated ETL for an maximum cost of 28USD.

Skills

• Technical Skills



• Interpersonal Skills

