

# Minhaz Hoque

## Data Analyst

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### PROFESSIONAL SUMMARY

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Data analyst graduate from AI Core's two year program with a BEng in Material Science and Engineering from the University of Birmingham. I turn data into results using SQL, Tableau, Power BI and Python. My versatility in data analysis is demonstrated through my 3 separate EDAs in the fields of retail, finance and mechanical engineering, where I provided actionable insights and key levers that could drive both growth as a business and in revenue. My technical expertise also shines through in my use of python for my leisure – e.g. building an LSTM/ARIMA machine learning model to predict daily crypto prices, delivering me a net positive return in live trading. My engineering precision coupled with my sales/education-honed communication skills enables me to craft insights that drive informed decisions—turning dashboards into strategic market wins.

### SKILLS

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**Techniques:** Data Visualization, Extract, Transform, Load (ETL), Statistical Modelling, Data Cleaning

**Programming & Data Reporting:** Python, Pandas, SQL, MATLAB, Power BI, Tableau, Excel

**Cloud and Version Control:** AWS, AWS CLI, RDS, S3, git/github

### TWO KEY PROJECTS

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#### Exploratory Data Analysis: Customer Loans in Finance | [GitHub](#) 09/2024 – 10/2024

- Designed a personalised python class to extract data from an RDS database with SQLAlchemy and conducted ETL and cleaning on a 54,000 record financial loans data set.
- Prepared data using Pandas, including data cleaning of 40 columns, imputation of missing values, outlier removal and transformation of skewed data.
- Answered 10 business questions by generating visualisations and exploring the data.

#### Multinational Retail Data Centralisation | [GitHub](#) 07/2024 – 09/2024

- Created a robust ETL pipeline to extract data from 5 different sources, which include RDS, S3, JSON, CSV and APIs, ensuring reliable data extraction.
- Conducted thorough data cleaning on 21 unique columns to enhance data quality, removing inconsistencies and ensuring accuracy for analysis.
- Implemented data transformation processes on 10 total columns to convert extracted data into suitable formats for analysis and reporting.
- Implemented a star-shaped schema in PostgreSQL, linking the 5 tables together, facilitating efficient data storage and retrieval to support complex analytical queries.
- Executed 9 SQL queries to address specific retail scenarios, generating insights that informed strategic decision-making and improved operational efficiency.

### WORK EXPERIENCE

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#### British Telecommunications, Birmingham, UK

##### Trainee Partner (Data Analyst & Data Acquisition Specialist)

12/2023 – Present

- Collected and prepared primary data for analysis, consistently gathering an average of 210 data points per day—exceeding the company average by 40%.
- Utilised SQL and Python to analyse competitor trends, delivering actionable insights that supported BT's customer acquisition strategies.
- Contributed to team efforts that led to a 2.1% increase in BT's broadband and fibre market share during tenure.

## Excel Tuition & Training Centre, Birmingham, UK

Tutor

05/2021 – Present

- Instruct students across various age ranges (Year 2 - Year 12) to prepare them for key subjects and exams, including primary school SATs, 11+, GCSE, and AS Level.
- Design lesson plans and tailor teaching methods to meet individual student needs.
- Facilitate the achievement of a grade 6 or higher for 90% of students in taught subjects at GCSE level.
- Sustain a supportive learning environment to enable every student to thrive.

## Paprika Longbridge, Birmingham, UK

Waiter

05/2018 – 03/2020

- Greeted customers and processed orders, serving as a vital link between kitchen staff and front-of-house operations to ensure a positive dining experience.
- Maintained impeccable cleanliness of tables and the dining area, enhancing table turnover rates by 12% and overall operational efficiency.
- Addressed customer complaints promptly and professionally, ensuring satisfaction and retention.
- Collaborated with staff to accelerate service by 30% during peak hours, contributing to an efficient workflow.

## EDUCATION

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### Microsoft PL-300, Remote

Working towards the PL-300 Microsoft certification in Data Analytics

04/2025 – Present

### AICore, Remote

Completed multiple certifications in Python, Software Engineering & Data Analytics

12/2022 – 12/2024

### University of Birmingham, Birmingham, UK

Bachelor of Engineering in Materials Science

09/2019 – 07/2022

## CERTIFICATIONS

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### AI-Core

Python Programming

10/2022

Software Engineering

09/2024

Python – Exploratory Data Analytics

10/2024

### Udemy

The Complete Data Analyst Bootcamp

06/2024

The Complete SQL Bootcamp

05/2024

### Sololearn

Python Intermediate

05/2024

SQL Intermediate

05/2024

Coding for Data

05/2024