

Hassan Mehmood

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[LinkedIn](#) | [GitHub](#) | [Personal Website](#)

Summary

Passionate and detail-oriented data enthusiast with over 3 years of experience in end-to-end data solutions including client-side front end, back end, data management and deployment, specializing in data science.

Skills

Languages: Python, R, SQL, JavaScript, HTML, CSS, Spark, Hive

Technologies/Frameworks: TensorFlow, PyTorch, Django, Fast-API, REST APIs, React Native

Methodologies and Technologies: A/B testing, ETL pipeline, Statistics, Time series analysis and modelling, APIs, Excel, Git, Version Control Systems, Agile Methodologies. **BI Tools:** Power BI, [Tableau Profile](#)

Education

Ontario Tech University Sep 2024 – Sep 2025

Masters, Business Analytics and Artificial Intelligence

- Business Analytics, Programming and Data Processing, Data Visualizations, Ethics in AI.
- Digital Transformation, AI Programming, Big Data System Design, AI Security Privacy and Trust

George Brown College Sep 2023 – Aug 2024

Postgraduate Program, A.I. Solutions Development Program

- Big Data, Machine Learning, Deep Learning, Data Visualization, Data Management.

University Of Toronto Feb 2022 – Aug 2022

Certificate, Financial technology

- Data Analysis, Machine Learning. Financial Analysis

University Of Health Science Dec 2009 – May 2015

Bachelors, Health Science, BDS

Experience

2U. Inc Sep 2022 – Aug 2024

Teaching Assistant / Tutor

Job responsibilities include teaching and breaking complex concepts in the following subjects into simple granular abstractions:

- Data Analytics, Financial Technology
- Python, APIs, SQL, Statistics, JavaScript.
- BI Tools.

- Unsupervised Learning, Time Series, Supervised Learning
- Neural Networks, Deep Learning, TensorFlow.
- Block Chain and Solidity.

Projects

Buraq-Tech

- Built an end-to-end start-up that primarily offers digital transformation of small businesses.
- Built Front End using React, JSX, Vite and Tailwind.
- For backend Python, Fast-API, TensorFlow were used.
- For database Postgres SQL is being used.
- For deployment `Hostinger` was selected.
- Link: buraqtech.ca

Big Data Management and Analytics

- Extracted data from different resources such as API's, CSVs, JSON.
- Saved the loaded data into different databases, structured data bases were stored in SQL express server,
- Built a pipeline that retrieved the data from these data sources, transformed the data, such as sentiment analysis on news data using a pretrained model and loaded it into a local staging database, for this task PostgreSQL was used.
- Shifted the data from the local data warehouse to a cloud-based service, Azure SQL was used for this purpose.
- Finally, Power BI was used to make visualizations and dashboard.

Object Detection

- Used ultralytics to finetune yolo-v8 model for real time object detection.

Text Summarizer

- Leveraged TensorFlow to build a transformer model for text summarization tasks.
- Fine Tuned a model from hugging face to compare performance using rouge metrics.

Certificates

- Full Stack Software Developer Certificate
- IBM, Professional Data Engineering Certificate
- Microsoft, Azure Data Scientist Associate
- Google, Advanced Data Analytics Certificate
- IMF, Financial Markets Analysis

Awards

- 2023 Fall, Deans Honor List.
- 2024 Winter, Deans Honor List.