Hassan Mehmood

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LinkedIn | GitHub | Personal Website | Tableau Profile

Summary

Data science professional with expertise in predictive analytics, data visualization, and financial metrics, honed through founding Buraq Tech and mentoring at 2U. Skilled in Python, SQL, Power BI, and TensorFlow, with a passion for modeling financial data using time series and AI. Seeking data science roles to drive actionable insights and innovative solutions for organizational success.

Skills

Languages: Python, R, SQL, JavaScript, HTML, CSS
Technologies/Frameworks: TensorFlow, PyTorch, Django, Fast-API, REST APIs, React Native
Methodologies: A/B testing, ETL pipeline, Statistics, Time series analysis and modelling, APIs, Git, Version Control Systems, Agile Methodologies.
BI Tools: Power BI, Tableau

Experience

Data Science Analyst Intern, EQ Bank – Toronto, ON
May 2025 – Present
- Monitor and analyze predictive models, tracking KPIs to deliver statistical insights for financial performance metrics.
- Develop Power Apps and Power BI dashboards to streamline workflows and visualize time series trends for stakeholders.
- Integrate external data sources using SQL and APIs, ensuring comprehensive reporting and actionable business insights.
- Collaborate with cross-functional teams to gather requirements, optimize tools, and document processes for reproducibility.

Founder/Owner, Buraq Tech – Toronto, ON
June 2024 – Present
- Designed and deployed a scalable web application using React, Fast-API, and TensorFlow, integrating predictive modeling for business insights.
- Implemented a PostgreSQL database, optimizing data retrieval speed by 30% and ensuring seamless back-end integration.
- Managed a team of two developers, fostering collaboration and delivering high-quality products on Ho-stinger's cloud platform.
- Website: buraqtech.ca

Teaching Assistant / Tutor, 2U. Inc – Toronto, ON
Sep 2022 – Aug 2024
- Mentored 50+ students in data analytics, machine learning, and time series analysis.
- Developed tailored learning materials for Python, SQL, and TensorFlow, enhancing student engagement and project outcomes.
- Simplified complex AI and blockchain topics for diverse learners, receiving positive feedback for clarity and approachability.

Education

University of Ontario, Institute of Technology – Oshawa, ON

Masters, Business Analytics and Artificial Intelligence, 2025

GPA: 3.91/4.3

- 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 – Toronto, ON

Postgraduate Program, A.I. Solutions Development Program, 2024

GPA: 3.76/4.0

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

University Of Toronto – Toronto, ON

Certificate, Financial Technology, 2022

- Data Analysis, Machine Learning, Financial Analysis.

Projects

Big Data Management and Analytics

- Finally, Power BI was used to make visualizations and dashboard.
- Built an ETL pipeline to extract data from APIs, CSVs, and JSON, performing sentiment analysis using a pretrained model.
- Managed data in PostgreSQL and Azure SQL, creating Power BI dashboards for actionable insights.

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

- IBM, Full Stack Software Developer Certificate
- IBM, Professional Data Engineering Certificate
- Microsoft, Azure Data Scientist Associate
- Google, Advanced Data Analytics Certificate
- IMF, Financial Markets Analysis
- EDHEC, Investment Management with Python and Machine Learning

Awards

- Deans Honor List, George Brown College – Fall 2023
- Deans Honor List, George Brown College – Winter 2024