Talha Abbasi

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EDUCATION

University of Manitoba   Winnipeg, MB
B.Sc Joint Honors in Computer Science and Statistics, Minor in Mathematics (4.37/4.5)   *Aug. 2023 – May 2027*

Beaconhouse College Program   Islamabad, Pakistan
A-Levels in Natural Sciences   *Aug. 2020 – May 2022*

EXPERIENCE

Prompt Engineer   Nov. 2023 – Present
Outlier   *Remote*
- Developed and refined 100+ advanced prompts weekly to enhance AI models' performance in data analytics and fraud detection scenarios.
- Specialized in analytics-driven problem-solving for Multivariable Calculus, Linear Algebra, Probability, and Statistics.
- Analyzed thousands of model responses to maintain a precision rate exceeding 95%, ensuring robust analytics for client use cases.

Data Analytics Intern   Sep. 2022 – Feb.2023
CitroPak Ltd   *Islamabad, Pakistan*
- Cleaned and processed 50,000+ records from diverse databases, improving data readiness for analytics and reporting.
- Automated 10+ reports using Power BI and Excel, optimizing workflows and reducing reporting time by 30%.
- Conducted trend analysis, identifying key insights that enhanced production efficiency by 15%.

Software Engineer Intern   May. 2022 – Oct. 2022
Technology and Business International   *Islamabad, Pakistan*
- Assisted in writing, testing, and debugging 1,000+ lines of code across 5 software projects under mentorship.
- Created 3 beginner-friendly Python scripts under mentorship, including one to generate weekly order summaries for 50+ clients, reducing manual work by 50%.
- Participated in 5+ code reviews, learning best practices for clean and efficient coding.

PROJECTS

Excel and SQL Dashboard | *SQL, Excel, Data Analytics*   Jan. 2025
- Developed an interactive dashboard using SQL and Excel to analyze business data.
- Extracted and transformed raw data using SQL queries to support decision-making.
- Created pivot tables and charts to visualize key metrics for stakeholders.
- Added interactive features to enhance data exploration and usability.

End-to-End Data Analysis | *Python, SQL, Data Visualization*   Jan. 2025
- Collected and cleaned raw data from multiple sources to prepare it for analysis.
- Performed statistical analysis and generated insights using Python libraries such as pandas and NumPy.
- Created visualizations using Matplotlib and Seaborn to present findings effectively.
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

Ludo AI | *Python, Reinforcement Learning, PyTorch, TensorFlow*   Jan. 2024
- Developed an AI agent for Ludo using reinforcement learning techniques, specifically Q-learning.
- Implemented a game interface using Pygame, facilitating real-time rendering and event management.
- Designed and integrated a QNetwork class with neural networks to enable adaptive learning and strategic gameplay.

TECHNICAL SKILLS

Languages: SQL, Python, R, SPSS, Angoss, Java, JavaScript, C#
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI, SSIS, Alteryx, Power Platform
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform (GCP), Microsoft Azure, Visual Studio Code (VS Code), Visual Studio, PyCharm, IntelliJ, Eclipse, Tableau, IBM i2 Analyst Notebook, Power BI, Outlook, Excel, PowerPoint
Libraries: pandas, NumPy, Matplotlib, T-SQL, Hadoop Hive, Oracle, DB2