Talha Abbasi

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EDUCATION

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

Beaconhouse College Programme — Islamabad, PAK
A Levels in Pure Sciences (Biology (A), Chemistry,(A*) Physics(A*), Mathematics(A*)) — *Sep. 2020 – Sep 2022*

Coursera — Online
Google Advanced Data Analytics Professional Certificate — *Dec.2022 – March 2023*

PROJECTS

Ludo AI | *Python, Reinforcement Learning, PyTorch, Q learning, TensorFlow* — Sep 2023 – Jan 2024
- Developed an AI agent for Ludo using reinforcement learning techniques, specifically Q-learning, to enhance decision-making and gameplay strategies.
- Implemented a game interface using Pygame, facilitating real-time rendering and event management to create an engaging user experience.
- Designed and integrated a QNetwork class with neural networks to enable adaptive learning and strategic gameplay for each AI player.
- Analyzed game dynamics and implemented complex strategies, including risk assessment and opponent interaction, to improve the AI's performance in a competitive environment.

Car Sales By Location | *Data Structure, C++* — Dec 2022 – Jan 2023
- Developed a car sales parsing program in C++ utilizing a 2D hash graph for efficient storage and retrieval of car location data based on latitude and longitude coordinates.
- Implemented a hash table to organize and access car data, using make and model as keys for quick lookups.
- Designed a trie data structure to facilitate fast searches of car data by country, enhancing data retrieval efficiency.
- Utilized chained binary search trees (BSTs) to sort and manage car data by attributes such as age, price, and purchase date, improving data organization and access times.

LEADERSHIP AND ACTIVITIES

Manitoba Cricket Association Division 2 | *BloomField* — May 2024 – Present
- Played as an leg spin bowling all rounder and the team placed overall 4th in the MCA Summer 24 tournament.

Peer Tutor | *Introductory CS, Mathematics and Statistics Courses* — Jan 2024 – Present
- Provided peer tutoring for introductory computer science, mathematics, and statistics courses, facilitating student understanding and enhancing problem-solving skills through collaborative learning sessions.

EXPERIENCE

Pharmacy Assistant — Oct 2023 – Feb 2024
Shoppers Drug Mart — *Osborne Station, WPG*
- Data entry using Healthwatch and PHIMS
- Managed inventory, ordering, and stocking and updated vaccinations specifically COVID and Flushots
- Resolved customer inquiries, concerns, and complaints promptly, maintaining positive relationships.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (SQL Server, MySQL, PostgreSQL), JavaScript, HTML/CSS, R
Frameworks: Pygame
Developer Tools: VS Code, Visual Studio, Jupyter Notebook, Microsoft PowerBI, Tableau
Libraries: pandas, NumPy, Matplotlib, TensorFlow, STL (C++)
Other Tools: Excel (VLOOKUP, Conditional Formatting, Pivot Tables, Interactive Dashboards)