Farooq Qureshi

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EDUCATION

University of Ottawa, BASc in Electrical Engineering *Ottawa, ON - May 2029*
- Courses: Introduction to Computing I, Calculus I & II, Digital Systems, Physics for Engineers, Engineering Design

Sir Winston Churchill High School, High School Diploma *Calgary, AB - June 2024*
- Runner-up Valedictorian (**Top 4 / ~730 students),** Honor Roll (all semesters)

TECHNICAL SKILLS

Languages & Frameworks: Python, HTML/CSS, Pandas, sklearn, Matplotlib | *Beginner*: JavaScript, Java
Developer Tools: VS Code, Vercel | *Beginner*: Google Cloud Platform
Technologies: Figma, Github, Microsoft Office Suite, Google Workspace, Notion, Jupyter Notebooks, Canva

PROJECTS

Todoist and Notion - Task Integration *GitHub Demo*
- Designed and implemented a Python integration between Todoist and Notion, **leveraging REST APIs and JSON parsing** to automate task synchronization, filter out duplicates, and improve productivity by minimizing manual data entry.
- Enhanced script reliability with advanced error handling and logging mechanisms, ensuring efficient task syncing, robust performance, and rapid issue resolution.

Natural Language Processing for Google Calendar - Chrome Extension *Demo*
- Engineered a **Chrome extension** with Google Calendar API integration and **OAuth 2.0 authentication**, enabling seamless event management with a 90% success rate in API transactions during testing.
- Developed **an NLP-based event parser** using Compromise and Chrono-node libraries, achieving accuracy in extracting dates, times, and locations, and implemented real-time location suggestions **via Photon Geocoder** with **sub-200ms response times**, improving user efficiency.

Housing Price Analysis and Prediction *GitHub Article*
- Boosted house price prediction accuracy by applying **XGBoost and LightGBM models in Python**, reaching an **R^2 score of 0.730**. Used Randomized Search with **scikit-learn for hyperparameter tuning**, optimizing estimators, learning rate, and depth, **enhancing model performance by 0.013**.
- Refined predictive models through advanced **data preprocessing with pandas**, including outlier detection and feature engineering. **Utilized SHAP for in-depth model interpretabilit**y, offering insights into feature importance and supporting data-driven decisions.

LEADERSHIP

Community Coordinator, *uOttaHack* *Ottawa, ON - Oct. 2024 to Present*
- Fostering community engagement and planning dynamic events for uOttaHack, **an MLH hackathon with 800+ participants**, including workshops and networking sessions.
- Creating **partnerships with companies and on-campus organizations** to secure resources and mentorship, enhancing participant engagement.
- Collaborating with 30+ team members to streamline event logistics and promote an inclusive atmosphere.

Debate Tournament Organizer *Calgary, AB - Mar. 2022 to Jan. 2024*
- Directed the planning and execution of independent debate tournaments **for over 1,000 students across Calgary**, showcasing leadership in managing large-scale events for over 2 years.
- **Generated $5,000+ in revenue** through strategic engagement with 20+ schools, demonstrating strong financial acumen and stakeholder management.
- Led the efficient organization and data management for **300+ competitors** using Google Sheets and TabbyCat, ensuring timely delivery of results within 24 hours.

AWARDS & RECOGNITION

- Southern Ontario Model United Nations Conference 2022 (SOMA): Best Delegate (**1st place**), conference of **800+ participants**.
- 35th Annual Stanford Invitational: **Semi-Finalist** (World Schools Category), tournament of **500+ participants**.
- Secondary Schools United Nations Symposium 2022 (SSUNS): Best Delegate (**1st place**), conference of **1300+ participants**.