

HARSH AGRAWAL

4th Year Student at University of Waterloo

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EXPERIENCE

Google

Summer 2022

- **Designed and implemented a cross-vertical attribution** system for multiple verticals to use the same attribution pipeline.

Huawei

Fall 2021

- Added **multi-threading** and **distributed computing** to pandas, improving performance by **800%**.

Huawei

Winter 2021

- Developed **PostgreSQL scripts** and graphical interfaces to analyze data, improving benchmarks by **15%**.
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PROJECTS

Realistic Stable Diffusion

Tensorflow, Keras, DL

- Filtered stable diffusion outputs based on confidence level of **object detection**.
- Developed a **prompt generator** to create alternate prompts for txt2img model.

Twitter Stock Prediction

Python, NLP

- Correlated tweet **sentiment**, **content** and **volume** of companies and cryptocurrencies to their stocks.
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EDUCATION

University of Waterloo *Candidate for Bachelor of Computer Science (4A)*

Sept 19 - Sept 23

- GPA : **90.0%**
 - **Excellent Academic Standing** in every term.
 - Received a **\$15,000** Computer Science Scholarship.
 - Notable courses: Advanced Object-Oriented Programming, Algorithms and Data Structures, Concurrent Programming, Distributed Systems, Machine Learning.
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SKILLS

Languages C++, Python, C, Java, Rust, SQL

Technologies Deep Learning (Tensorflow, Keras), Concurrency, Distributed systems, Android, NLP