ADITYA SHARMA

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❯ Skills

LANGUAGES: Python, C/C++, SQL, Go, Scala, C#, VHDL, RISC-V, Javascript

TOOLS: Keras, Tensorflow, Pytorch, Pandas, Cassandra, Kubernetes, GCP, scikit-learn, Spark

❯ Employment

Plastic Havas
Machine Learning Innovation Intern   May 19 to Present
- Implemented Computer Vision/OCR algorithms for autonomous driving for coffee delivery on Loomo Segway(Segway Robotics)
- Used GANs, LSTM + RNN model, and Open-GPT2 to create a fake Instagram persona and converted it into an "Influencer" while also providing Instagram trends and analytics

IBM
Cognitive Software Developer/ Data Science Intern   Sept. 18 to Jan. 18
- Performed numerous data wrangling operations and exploratory data analysis using **Tensorflow**, **pandas**, and **scikit-learn** on 500 GB of unstructured sensor data from various data sources to help build a pump failure prediction model
- Implemented multithreading and multiprocessing to make data ingestion pipeline **30** times faster and more robust than previous state
- Implemented various low latency data ingestion services in **Golang** to interact with **Cassandra** and **Consul**

Citco Fund Services
Software Engineering Intern   Jan. 18 to May 18
- Designed and developed an end-to-end web application that monitors and records the health of various APIs, URLs, and services, records the results and alerts the service owner in case of malfunction using JavaEE, Spring MVC, Hibernate, SQLServer, Maven and Tomcat reducing average service downtime by **3 days**
- Designed, developed and shipped a **RESTful** backend API from scratch based on business requirements using object oriented design to be consumed by various third-party clients using **C#** and **Entity** framework

Shaw Communications
Software Engineering Intern   Jan. 17 to May 17
- Used **Tableau** to visualize and analyze customer base in Calgary and recommend strategies for customer acquisition and growth
- Decreased double AA accessibility issues according to WCAG ARIA standards on the entire platform by **48%** across the entirety of Shaw's main online platform and hence saving about **$15,000** in fines

❯ Selected Projects

Sundae (Hackathon Winner)
- Ideated, designed, and architected an app a text-based journaling chatbot that uses NLP and sentimental analysis to help with your mental health
- Used data visualization and clustering to show users trends in their mood and particular times/days that they are most vulnerable at

MyoVision (Hackathon Winner)
- Designed, develop a system that plans workouts and tracks the number of a certain exercise performed by an individual over a given frame of time using the Myo armband
- Analyzed the data gathered via the various sensors to perform relevant statistics over the quality of respective exercise and provide recommendations on improvement of posture and form

Multiple Kaggle Data Science Projects
- Real Estate: Built a Housing price predictor to predict the price of houses based on various features
- Created a World Cup prediction model to determine who is going to win the FIFA World Cup

❯ Education

University of Waterloo   Sept. 16 to Present
BASc Computer Engineering
Involvements : UW Data Science Club, Watonomous, UW Badminton Club
Online courses : Fast.ai - Deep Learning