YUKTHI WICKRAMARACHCHI

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EDUCATION

3.77/4.0 GPA across all Math, Stats and Computer Science Courses (21 courses)

Coursework, Statistics and Computer Science Concentration, University of Toronto

2021-2023

Completed upper level courses in Algorithms and Data structures, Databases,
Operating Systems and Machine Learning

Honours Bachelor of Science, Life Science Major, Queen's University (3.67 GPA)

2016-2020

EMPLOYMENT

Predictive Systems Engineer (Internship), Deep Genomics, Toronto, Ontario

May 2023 - December 2023

- Developed Python package for computational gene therapy design
 - o Implemented and productioni zed three novel workflows in conjunction with machine learning scientists
 - Tested and validated workflows using Pytest framework
- Collaborated with a diverse team of machine learning scientists and biologists on transformer model for gene expression prediction
 - Fine tuned model for cell health classification, achieved 95% held-out accuracy on heart cell dataset
 - Applied model to perform analysis on importance of genes for cell health
- Developed web app for wet-lab scientist data collection and experiment design
 - Used React-Ts framework with Redux toolkit for state-management
 - Developed test plan for comprehensive front-end testing
 - Refactored Javascript components to Typescript
- Implemented backend for new drug design implementation in Python
 - Responsible for implementation of REST API layer as well as the Use Case Layer for new entities
 - Utilised FastAPI framework for REST layer development

PROJECTS

Fantasy Premier League Predictive Model

- Built data scraper using Python to scrape football player data from www.fbref.com and Fantasy Football API
- Developed data cleaning and feature engineering pipeline for automated data processing
- · Trained and tuned XGBoost Regressor for optimised player point projections

Newtapp Social Media Application Prototype (Course Project)

- Developed interest based social media web application with a Java backend and React-JS frontend
- Deployed PostegreSQL database for data storage
- Designed backend API server to handle user account creation, user conversations and user text posts

Languages & Technologies

Languages: Python, C, Java, Javascript, Typescript, Bash, HTML **Technologies:** Git, PostGreSQL, React, Jupyter Notebook