Adshayan Balendra

Computer Engineering | University of Waterloo

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TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, HTML, CSS, SQL(PostgresSQL,sqlite3)

Frameworks: Flask, Pandas, Django, NumPy, scikit-learn, Tensorflow, REST API, Cypress, Selenium, Plotly Tools/Technologies: Git, JIRA, Jupyter Notebook, Power Apps, Dynamics 365, Postman, Databases

EXPERIENCE

Software Developer Brampton, CA

Loblaw Companies Limited

Sept. 2020 - Dec. 2020 o Rebuilt and deployed team's flagship Microsoft PowerApp to reduce paperwork and repetition increasing efficiency

- for warehouses nationwide
- o Developed an efficient JS program that parses warehouse data to build automated supervisor reports in real-time o Restructured back-end client to transition a suite of warehouse applications to support a new Microsoft client interface increasing data transfer speeds by 40%
- o Built a **proof of concept** virtual map system to promote safe and minimum contact intra-office travel by providing colleagues with real-time and accurate crowd heatmaps for Loblaws company wide hackathon

Python Instructor Toronto, CA

Motala Business School

Oct. 2020 - Dec. 2020

- o Co-developed a Python for Data Analysis course, creating lecture material on topics such as Pandas & Numpy
- o Utilized Jupyter Notebooks to create exercises on course material to enrich course content

Quality Assurance & Research Student

Toronto, CA

University Health Network

Jan. 2020 - Apr. 2020

- o Established an automated testing suite within Cypress IO for regression and end-to-end testing; reducing validation testing time by 94%
- o Developed and executed test plans for medical grade mobile and web applications to meet product quality standards and compliance to ISO 13485 for medical devices
- o Worked with the Associate Director to assess the viability and requirements of data visualizations for a researcher platform, accumulating real time clinical data with tools such as Elastic Stack & R Shiny
- o Collaborated with product managers and developers within a scrum-based agile workflow, using tools such as JIRA

PROJECTS

O Diabetes Doctor | Flask, Pandas, Sklearn

- o Co-developed a diabetic platform that screens users for diabetes and tracks their glucose levels & other medical data
- o Built entire back-end which involved user creation, authentication, data collection using Python and Flask
- o Designed and implemented a CRUD Rest API to handle patient and test data harnessing a Sqlite database
- o Diagnoses user through a random forest classifier machine learning model with an accuracy of 98% on test data

Garage Management System | C++, Object Serialization, Data Management

- o Designed a C++ program to manage inventory by building a database where objects are serialized & stored in files
- o Implemented a CRUD like structure to enable efficient creation and management of inventory data

O Detection of Diseases | Pandas, Python, Sklearn

- o Developed a **supervised** machine learning model for the detection of Parkinson's and breast cancer
- o Attained a 95% accuracy for both models using a XGBClassifier and a linear SVM respectively

COVID-19 Dashboard | Python, Pandas, Plotly

- o Built an interactive real-time COVID-19 dashboard that analysed and visualized John Hopkins COVID data
- o Implemented a machine learning model to predict number of cases & deaths two weeks into the future using Prophet

Cryptoboard | Python, Flask, SQLite3

- o Developed a website that manages a user's cryptocurrency portfolios utilizing a cryptocurrency API for price data
- o Designed and integrated features like user verification, portfolio management and authenticated transactions to actively manage portfolios efficiently and securely

EDUCATION