

Samia Anwar

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EDUCATION

McMaster University

Graduated November 2024

BEng.BME. Software & Biomedical Engineering — Hamilton, ON

- Relevant Coursework: Algorithms & Data Structures, Object-oriented Design (Java), Operating Systems (C language), Networks, Databases (SQL), Linear Algebra

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++ | **Libraries:** scikit-learn, TensorFlow, OpenCV, Pandas

Front End: React, Vue, Flutter, Tailwind CSS | **Back End:** Flask, Node.js, NoSQL, GraphQL, AWS

EXPERIENCE

Software Research Assistant | Healthcare Systems R&A

May 2022 - August 2022

- Implemented a key-point detection algorithm with 85% accuracy using Python machine learning and data processing libraries (TensorFlow, OpenCV, numpy, matplotlib and Pandas)
- Generated training and testing datasets from videos and annotated 25 landmarks on 600+ images

Deep Learning Project Manager | Llettonna Foundation

April 2020 - July 2021

- Spearheaded the development of a deep neural network model to classify infant facial patterns, resulting in a published paper and a maximum accuracy of 99.5%
- Trained a classification model using the fast.ai library to predict outcome of in-person and online psychiatric therapy with 80% accuracy
- Translated project requirements into technical tasks to be delegated among a team of 5 developers

Software Developer Intern | Fyelabs

May 2020 - August 2020

- Developed IOS and Android app with Flutter on Android Studio for faculty to book their entry on McMaster campus used by over 500 people during the pandemic
- Maximized company efficiency by 200% by building a deals pipeline and kanban board for internal projects using Vue and querying APIs
- Conceptualized software solutions specific to the needs for two external clients within two months

PROJECTS

Stock Market Predictor

December 2024 - January 2025

- Leveraged daily stock market data from the yfinance library to create a deep learning model using scikit-learn and pandas to output a 30-day price prediction for any public company
- Formulated a backtesting framework using custom API endpoints written in Flask to simulate trading actions with up to 50% profits
- Visualized back-testing results using React and Tailwind CSS to create an interactive web app to customize a stock portfolio and return graphs of profits and predicted vs actual values for each selected ticker

My Health Pal

September 2023 - April 2024

- Engineered a user workflow and database schema for a vaccine and appointment scheduling application which fulfilled 100% of the identified requirements
- Designed a backend database architecture which was successfully integrated using AWS SDK and Node.js
- Implemented an interactive vaccine tracking and scheduling pipeline using a React.js and AWS Amplify components which gained a 90% user approval rating in the most recent iteration

matisse

January 2022 - April 2022

- Created an npm library to manipulate colours digitally with support for 5 colours spaces using JavaScript with more than 10 weekly downloads currently
- Evaluated for colour translation correctness using JUnit for automating test cases