Samridhi Vaid

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EDUCATION

Edmonton, Canada

M.Sc. Computing Science

University of Alberta   Sep 2021-Present

B. Tech in Computer Science & Engineering   Delhi, India

ADGITM, Guru Gobind Singh Indraprastha University   May 2019

Overall CGPA: (8.99/10.0)

RELEVANT WORK EXPERIENCE

Graduate Teaching Assistant   Edmonton, Alberta

University of Alberta   Sep 2021 – Present

- My responsibilities involve designing assignments. Grading assignments, projects and assisting students with their doubts regarding the course topics.
- Course: Computer and Society

Engineer- *Broadcast Certification Team*   Delhi, India

Samsung Research & Development Institute   June 2019 – Aug 2021

- Developed an automation tool to test Samsung TVs' conformance to the latest picture quality standard. This tool resulted in 100% automation and testing without manual intervention.
- Single handedly developing the conformance test suite to validate complete implementation of a device to verify conformance to wide range of standards as per ATSC 3.0, the latest broadcast technology.
- Assisted the team get national level accreditation certificate (ISO17025:2017) from NABL for our team's certification lab.
- Responsible for developing automation tools to achieve 100% automation in the testing of Samsung TVs.
- Developed critical modules of three test automation tools used for Samsung TVs globally.
- Achieved 100% adherence to required picture quality standards. Resulted in 60%-time savings within 2 months of launch.

Intern- *Crypto team*   Remote, San Francisco

Intel Indexer, US-based Startup providing trading strategies   Feb 2018 – May 2018

- Processed finance domain algorithms for feature extraction and formulated ML & AI related trading strategies. Developed a pipeline for extracting data from coinmarketcap & quandl and provided relevant predictions using LSTM, GRU & BDLSTM recurrent neural networks.
- Model used by 3 client companies and received a letter of recommendation for an outstanding performance from the CEO. Held induction training for new interns to familiarize them with algorithms & trading strategies provided by the company.

ACADEMIC PROJECTS

Footfall (Group Project)   Jan 2019 - May 2019
- The project increased sales in the retail markets by employing footfall traffic sensors to measure the footsteps of people using their smartphones. Project was written in R programming language.
- Data from footfall sensors was utilized and presented using Shiny dashboard, an R package which is used to create a web app dashboard. The webapp dashboard showcased detailed analysis on factors like the number of people who: visited, bought an item, tried something, did not buy and did not enter the retail store.

InterStellar (Group Project)   Aug 2018 – Dec 2018
- Created a dashboard called Lumen that gave the future price prediction of a Cryptocurrency called Stellar.
- Single-Handedly developed the backend script on Python to predict future prices of Stellar using Long Short-Term memory model (LSTM).

Smart India Hackathon (Group Project)   March 2018
- Developed a facial recognition app for modern classrooms using Amazon Web Services APIs.
- The application made use of AWS machine learning models which were connected to the SQLite database using the python scripts.
- Designed a smooth front end interface to enhance the user experience while uploading the input files.

Sentimental Analysis Application using Python (Individual Project)   Dec 2017
- Created an application for the content analysis of all forms of text in English.
- The classification was done using naive Bayes classifier, the dataset was fit on the classifier, which then predicted if the text is positive or negative in sentiment.

The MedTech Calculator (Individual Project)   April 2016
- Created an application built on android studio employing Java programming language and XML language.
- The application sent reminders when to take medication using different alarms. It kept track of when to refill the medicines and provided a history of medicines consumed in a day, month and year.

SELECTED ACHIEVEMENTS

- Awarded **Young Achiever Award** from **Samsung Research and Development Institute** for Outstanding performance in the first year of joining the company
- Achieved rank 17/1672 at university level during the 7th Semester of B. Tech.
- Received **Certificate of Merit** for securing the highest possible 10 CGPA in Class X Examination

TECHNICAL SKILLS

Languages: C, C++, C#, Python, R, SQL
Framework: Git, Docker, Tensorflow, PyTorch, Keras
Libraries: BeautifulSoup, Matplotlib, NumPy, Pandas, Sklearn
IDEs: Android Studio, Code Blocks, Turbo, RStudio, IntelliJ, PyCharm, Eclipse, Visual Studio