Kavita Bhavsar

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Summary of Qualification

- Enthusiastic Data scientist with the strong command on analysing the data using machine learning libraries such as Tensorflow, Numpy, Pandas, Sci-kit learn etc.
- Efficiently search for the data patterns as to solve the complex and big problem with the innovative solutions
- Successfully designed and coded applications having the proficient knowledge of C, C++, Java, Python, MYSQL
- Passionate for working on new technologies within the agile environment in order to contribute into the company's growth of success while enhancing my personal development through my continuous learning attitude

Projects

Diagnosis of Malaria from the cell images (Course Project):

- Efficiently designed and coded the custom CNN model using Tensorflow, Pandas, Numpy, sci-kit learn and OpenCV towards detecting malaria from the cell images which outperformed sate of the art with 99.8% accuracy

Sentiment Analysis of the movie reviews (Course Project):

- Successfully built a model with a bidirectional GRU using machine learning libraries to achieve the sentiment analysis of the positive and negative movie reviews collected as an IMDB dataset
- Designed model delivers 86% of the accuracy on the testing dataset

Human Activity recognition based on the sensory data (Course Project):

- Evaluated different Gradient Boosting Decision Tree algorithms such as XgBoost (xgb_exa, xgb_his – Versions of XgBoost), SGB and LightGBM on UCI dataset of Human Activity recognition.
- From all LightGBM with Gradient-based one-side sampling and Exclusive Feature Bundling features outperforms with 95% accuracy on test data

Opening Stock Price prediction – (Personal Project):

- Proficiently coded the stacked LSTM model and GRU as RNN using Numpy, Pandas, Keras and Matplot to predict the Open Google Stock prices where GRU model outperforms the LSTM model with an excellent MSE of 17.48 and efficiently follows the upward and downward trends of the stock price values

Credit Card Fraud Detection - (Personal Project):

- Productively designed SOMs using Numpy, Pandas and Minisom libraries in order to achieve the goal of explicit prediction of potential list of customer ids for fraud in the high dimensional non-linear dataset

Churn Modelling – (Personal Project):

- Coded ANN using Tensorflow, Numpy and Pandas towards predicting the customers stays with the bank or leaves the bank based on the different features which delivers 86% accuracy on the test dataset with 100 epochs

Experience

Team Member **September 2020 to December 2020**
At the Zero Experience event of the Problem Lab,
University of Waterloo

- Productively working on the Billion Dollar Problem of AI Data, which focuses on solving the problem of insufficient data quality and storage system, occurs when we have to train our machine learning algorithm on a large volume high-quality dataset

Mobile Application Developer (Android) – Intern **January 2017 to April 2017**
At Milestone Technoconsulting Pvt Ltd, India.

- Efficiently collaborated with the team to achieve the successful implementation of an android application named "LockTicket" in order to book the tickets for events, concerts etc. and QR code scanning provided to validate and verify those booked tickets (Java, MySQL)
- Designed GUI for the "LockTicket" android application. (Android Studio)
- Successfully integrated the "Live Chat" feature into this ticket booking application

Education

University of Waterloo **September 2019 to December 2020**
Master of Engineering in Electrical and Computer Engineering with a specialization in Artificial Intelligence and Machine Learning
Academic Standing: Excellent (84.14%)

Charotar University of Science and Technology (Charusat), India **June 2013 to April 2017**
Bachelor of Technology in Information Technology
Academic Standing: Distinction (9.21/10)

Volunteer Work

Executed the Technical Event

- Successfully organized and managed a technical event called "Code-war" on the annual day of my undergraduate studies

Training and Placement Coordinator

- Actively coordinated the campus recruitment process during my final year of undergraduate studies

Tutor at Non-Government Organization (NGO), India

- United with an NGO named "Nirmaan" (Meaning – 'The Construction') to achieve a goal of making the education accessible with no cost to all without knowing their financial background
- Taught Mathematics to the children who didn't afford to go to school and planned the other activities to enhance their skills apart from education

Skills

- **Programming Languages :** C (Expert), C++ (Expert), Java (Proficient), Python (Proficient), HTML 5 & CSS 3 (proficient), Javascript (proficient), SQL (Proficient)

- **Machine Learning Techniques:** Data Preprocessing/Data Cleaning (Proficient); Pandas, Numpy, Sci-kit learn (Proficient); Data Visualization (Proficient); TensorFlow (Proficient); Deep Learning Techniques (Expert); Machine Learning Techniques (Expert)

- **Tools:** Visual Studio Code (Proficient), Jupyter Notebook (Expert), Google Collaboratory (Expert), Android Studio (Proficient), Net Beans (Proficient), Jira (Proficient) (Management Tool), MySQL (Proficient) (Database System), Microsoft Office (Expert)

Area of Interest

- Learning new technologies and techniques of machine learning and apply them on the large dataset to mining useful patterns through analyzing the data
- Helping people brings immense satisfaction and pleasure to my life
- Travelling and exploring new destinations, Dancing and Cooking