Harshit Agarwal

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Education

Gujarat Technological University, Ahmedabad
Bachelor of Engineering in Computer Engineering, August 2020
CGPA: 8.33/10 (Up to Semester: 7)

Lancers Army School, Surat
Science (12th Grade), May 2016
Percentage: 92%

Skills

Programming Languages: **Java, Python, C++, C, C#**

Machine Learning: **Scikit Learn, TensorFlow, Matplotlib, Neural Networks, Keras, OpenCV.**

Client-Side Scripting: **HTML5, CSS3, JavaScript**

Server-Side Technologies: **JSP/ Servlets, PHP**

Database: **Oracle SQL, MySQL**

Experience

Undergraduate Research Assistant
Sarvajanik College of Engineering and Technology, Gujarat, India
Jan, 2020 – May, 2020
- Assisting in the research project related to Music Analysis and Generation using GAN under Prof. (Dr.) Keyur Rana.

Data Science Intern
Krupa Diam., Maharashtra, India,
May 2019 – June 2019
- Team member for building predictive model for company's sales, inventories and budgetary
- This system helps management to study and analyse their sales trend prediction and based on that their inventory can be managed

Achievements & Leadership

- **Winner** of State Level Dance Competition, "**Flash Mob**", Surat, 2017
- Volunteer at Disha NGO which is engaged in helping Autistic and other special children, Surat, 2016

Publications

- Harshit Agarwal, Gaurav Jariwala and Vraj Jadhav, "**Sentimental Analysis of News Headlines for Stock Market**", IEEE International Conference for Innovation in Technology 2020, accepted for publication.

- Harshit Agarwal and Gaurav Jariwala," **A Neural Network Based Approach for Operating System**", Innovative Data Communication Technologies and Application (ICIDCA 2019), Lecture Notes on Data Engineering and Communications Technologies, vol. 46, pp 594-599, Springer, Cham.

- Harshit Agarwal, Gaurav Jariwala and Akshit Shah," **Analysis and Prediction of Stock Market Trends using Deep Learning**", Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019). Lecture Notes in Networks and Systems, vol 121, pp 521-531, Springer, Singapore

- Harshit Agarwal and Gaurav Jariwala," **Analysis of Process Scheduling Using Neural Net In Operating System**", Inventive Communication and Computational Technologies [ICICCT 2019], Lecture Notes in Networks and Systems, vol. 89, pp 1003-1014, Springer, Singapore.

Projects

Analysis and Prediction of Stock Market Trends, 2019-2020
- Achieved around 93% accuracy by using Recurrent Neural Network for predicting the values of open, close, high and low of a particular stock.
- Support Vector Machine and Naïve Bayes was used for the sentimental analysis of news headlines to predict the trend of stock price.
- Used K-Means clustering to make groups of similar stocks.

Fake News Detector, 2020
- Fake news is detected using Recurrent Neural Network, Bidirectional RNN, 1D-Convolution Neural Network and 1D-CNN-LSTM.
- Ensemble method is used to integrate all the model to improve accuracy up to 99%.

Student Placement Prediction, 2020
- Artificial Neural Network is used for predicting placements and starting salary of MBA student based on their performance.
- Webapp was made using React.js, Material Ui and deployed using Flask and REST API.

An Image classifier for TB detection using X-ray Scan, 2019
- Convolution Neural Network is used to detect TB in patients using X-ray. The user needs to upload their chest X-ray and the system gives them probability of them having TB.
- The system was trained and tested on two publicly available datasets: Sbenzhen chest X-ray set and Montgomery Country chest X-ray set (MC). Accuracy of 85 percent was achieved.