

# 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: **87%**

## Skills

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

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

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

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

Database: **Oracle SQL, MySQL**

## Experience

### Undergraduate Research Assistant Sarvajani 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 and Gaurav Jariwala, " **Analysis of Process Scheduling Using Neural Net In Operating System**", In: Ranganathan G., Chen J., Rocha Á. (eds) Inventive Communication and Computational Technologies [ICICCT 2019], Lecture Notes in Networks and Systems, vol. 89, pp 1003-1014, Springer, Singapore.
- Harshit Agarwal and Gaurav Jariwala, " **A Neural Network Based Approach for Operating System**", In: Raj J., Bashar A., Ramson S. (eds) 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**", Singh P., Pawlowski W., Tanwar S., Kumar N., Rodrigues J., Obaidat M. (eds) 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

## Projects

### Analysis and Prediction of Stock Market Trends, 2019-2020

- Recurrent Neural Network is used for predicting the values of open, close, high and low of a particular stock
- Sentimental Analysis is used on the news headline to predict the trend of the stock.
- Technologies used: **Python, Tensorflow, Keras, Deep Learning**

### Sentimental Analysis of Stock Market News Headlines, 2020

- Recurrent Neural Network is used for predicting the values of open, close, high and low of a particular stock
- Sentimental Analysis is used on the news headline to predict the trend of the stock.
- Technologies used: **Python, Tensorflow, Keras, Deep Learning**

### Fake News Detector, 2020

- Recurrent Neural Network is used for predicting the values of open, close, high and low of a particular stock
- Sentimental Analysis is used on the news headline to predict the trend of the stock.
- Technologies used: **Python, Tensorflow, Keras, Deep Learning**

### Breast Cancer Detection Using Artificial Neural Network, 2020

- Recurrent Neural Network is used for predicting the values of open, close, high and low of a particular stock.
- Technologies used: **Python, Tensorflow, Keras, Deep Learning**

### An Image classifier for TB detection using X-ray Scan, 2019

- This system 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: Shenzhen chest X-ray set and Montgomery Country chest X-ray set (MC). Accuracy of 80 percent was achieved.
- Technologies used: **Python, Convolutional Neural Network, Deep Learning**

### Goods and Services Tax (GST) Billing System, 2019

- This application is used to print and save bills. This billing system is automated, the user just have to add details once
- Multiple companies billing of same user can also be handled through this application.
- Technologies used: **ADO.NET, C#.NET, MySQL**

