

# HARSHIL SHAH

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## EDUCATION

### Vellore Institute of Technology, Vellore, India

June 2021

Graduated with Bachelor of Technology

CGPA: 9.13/10

Awarded with Merit Scholarship of INR 13000 for securing 2<sup>nd</sup> rank in branch in the first academic year.

### Chinmaya Vidyalaya, Chennai, India

March 2017

Graduated in Senior School Certificate Examination

96.8%

Awarded with Endowment Prize for 1<sup>st</sup> rank in school in CBSE Board Examinations.

## PROFESSIONAL EXPERIENCE

### J. P. Morgan, Mumbai, India

June 2020 – July 2020

*Summer Intern - Software Development Engineer*

- Developed a flashcard-based adaptive learning platform for underprivileged students with a Non-Governmental Organization (NGO) using Flask, Python, ReactJS, and MongoDB.
- Created a web application using ReactJS for interface and visualization of real-time stock feeds, and implemented an algorithm for prediction of future trends using regression analysis.
- Interacted with other members and worked as part of a team, developing inter-personal and social skills.

## ACADEMIC PROJECTS AND PAPERS

### A Performance Analysis of Deep Convolutional Neural Networks using Kuzushiji Character Recognition

- Analyzed the performance of state-of-the-art Deep Neural Networks, including the VGG Networks, Residual Networks, and Densely Connected Networks using various metrics.
- Authored a paper on the same, accepted for presentation in November 2020 at the 2020 International Conference on Decision Aid Sciences and Applications and for further submission to IEEE Xplore.

### A Comparative Study of Classification Algorithms with Varying Training Dataset Sizes on Cursive Hiragana Characters

- Authored and published a paper on the same in the international Journal of Xi'an University of Architecture and Technology. Volume 12, Issue 8, Pages 1388-1396, 2020, ISSN No 1006-7930.
- Conducted an analysis to assess accuracy of Machine Learning classification algorithms at different levels of available training data using images of cursive Japanese Hiragana characters.

### Automatic Meeting Attendance Application

- Developed an Android application with functionality to mark attendance automatically of members in a meeting using encrypted data over sound communication with the Chirp.io library.

## SKILLS

- Programming languages: Python, Java, C++, Matlab. Web Technologies: HTML, CSS, JavaScript.
- Industrial Skills: Android Application Development, Machine Learning, Deep Learning.
- Frameworks and Libraries: Flask, TensorFlow, Materialize, Scikit-Learn, Pandas, MongoDB.
- Non-technical: Inter-personal communication, Team leadership, Networking, and Presentation skills.

## EXTRA CURRICULAR ACTIVITIES

- Operated as manager for Code2Create Spring 2018, a national hackathon organized by the Association for Computing Machinery chapter annually.
- Helped organize cultural events such as CODART Winter 2019 as a core member for the Association for Computing Machinery chapter.
- Completed the Machine Learning course on Coursera offered by Stanford University, June 2019.
- Developed mobile applications and projects as an Android Application Developer.
- Performed a university-wide street play for energy conservation awareness as part of the Art of Acting club in January 2019.