

EDUCATION

Master of Science, Computer Science, University of Houston- Clear Lake
Bachelor of Technology, Electronics and Communication Engineering, Dharmsinh Desai University

August 2021 — May 2023
June 2017 — May 2021

TECHNICAL SKILLS

Programming Languages	Java, C, C++, Python, JavaScript
Database	MySQL, Oracle
Tools and Technologies	Latex, Git, PyTorch, HTML, CSS, Spring
Developer tools	Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Eclipse

EXPERIENCE

Software Development Engineer **August 2020 — July 2021**
Indian Institute of Technology Bombay **Mumbai, MH**

- Pre-processed text data in Sanskrit and implemented a statistical OCR model using CRNN achieving a F-score of 0.7720 to digitalize the old Sanskrit books.
- Developed backend services using Django and hosted it on AWS to handle complex user requests.
- Worked on Elasticsearch for developing a search engine for Sanskrit language to search book's content from database.

Remote Machine Learning Intern **May 2020 — July 2020**
Softsensor.ai **Bridgewater, NJ**

- Implemented patch extraction of size 256*256 from Whole Slide Images (gigapixel images) to reduce the high dimensionality of WSI.
- Developed an automated end-to-end deep learning-based framework for segmentation and downstream analysis of WSI images.
- Generated tumor probability heatmaps for better interpretation and fine-tuning the model with uncertain regions.

PROJECTS

Stock Prediction Forecasting | Data pre-processing, Data analysis, SVM

- Built Stock Price Forecasting Machine learning model on historical data from yahoo finance, FRED, and some financial sites.
- The SVM model is able to predict the stock price with more than 90 percent accuracy on correlated data.

Breast Cancer Classification | ResNet, Data augmentation

- Built a CNN classifier to identify breast cancer from images.
- Compared three different techniques on CNN base model and analyzed the results.
- Achieved 80 percent accuracy using base CNN model with Batch Normalization, 83 percent accuracy using CNN with data augmentation and 85 percent using CNN model with residual connections.

Sixth Sense Robot | Python, OpenCV, Arduino board

- Developed a robot that can be controlled through digital information using an Arduino board and other electronic components.
- The digital information is processed using the image processing technique which takes the input data from the user who can give commands using hand gestures.

Arcade Game | Java, Android

- Developed a simple hyper casual game minimal in nature and easy to use.

PUBLICATIONS

- Parth Trada, Himanshu Gajera. Lunar Crater Detection Walkthrough - A Review (IRJET)- ISSN: 2395-0056, Volume: 07 Issue: 09 | Sep 2020
- Parth Trada, Himanshu Gajera. Machine Learning based Analysis of Industry Finances Subjected to Bankruptcy (IRJET)- ISSN: 2395-0056, Volume: 07 Issue: 08 | Aug 2020

VOLUNTEER EXPERIENCE

AI Trainer **January 2020 -- May 2020**
Shashwat Foundation **Ahmedabad, GJ**

- Trained government high school students for developing their AI-based projects for national competition.

AWARDS & HONORS

2017 Tuition Fee Waiver Award for entire undergrad education.