

# HET PATEL

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## Education

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### North Carolina State University

Anticipated, May 2023

*Master in Computer Science*

*Raleigh, NC*

**Coursework:** Software Engineering, Design and Analysis of Algorithm, Database Management Concepts and Systems

### Vellore Institute of Technology

June 2017 – May 2021

*Bachelor of Technology - Computer Science and Engineering; GPA: 9.06/10*

*Vellore, India*

**Coursework:** Data Structures, Operating System, Artificial Intelligence, Web Mining, Java Programming, Image Processing

## Technical Skills

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**Languages:** Java, Python, C, C++, HTML/CSS, JavaScript, SQL

**Frameworks and Libraries:** Flask, Scikit, NLTK, TensorFlow, Keras, OpenCV, ChatterBot, Tkinter

**Platform and Tools:** Git, AWS, Visual Studio Code, PyCharm, Netbeans

## Experience

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### Artificial Intelligence Intern

December 2020 – May 2021

*Softvan Pvt. Ltd.*

*Ahmedabad, Gujarat*

- Developed automated process for training of Image Classification model using EfficientNet and its 8 variants, and successfully integrated to "TuskerAI" product. "TuskerAI" Product delivers end-to-end automation of Vision analytics, deep learning models, and enables the agility needed to accelerate Business verticals using our Automated AI-Engine
- Designed and deployed real time object detection model, in particular YOLOv4, for different use cases to AWS for "TuskerAI" Platform

### PHP Developer Intern

May 2019 – July 2019

*Ouranos Technologies Pvt. Ltd.*

*Ahmedabad, Gujarat*

- Researched and programmed the back end of a Web Application using PHP. Worked on Flask and integrated chatbot to Web portal.
- Designed database schemas using SQL to model the chatbot's response, integrated multiple ways to find the most appropriate answer based on user's Query.

## Projects

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### Satellite Image Refining for Building Detection | *Python, Spyder IDE*

April 2020

Proposed and implemented a novel approach for building detection from satellite images using Canny Edge Detector. Preprocessed SAR images with bilateral filter, gray scale, threshold filter, color overlay, open close filter and Canny Edge detection algorithm to achieve an accuracy of 93.4%.

### Cricket Highlight extractor using Deep Learning and Image Processing | *Python, PyCharm IDE*

December 2019

Developed an automated highlight extractor for the game of cricket. Various models are trained for six, four, wicket, wide, etc. and integrated into one. Based on the different umpire's gesture, a model is selected and appropriate time frame is selected. Incorporating all the small video frames, highlights will be automatically configured.

### Car Parking Allotment Bot | *HTML, CSS, JavaScript, PHP, Java, SQL, Pycharm*

November 2018

Developed an automated bot to allot available parking space for the cars and tested on Xampp local host server. Additionally, a search box for unallocated parking space module was integrated for any user to directly book any unallocated parking space.

### Oceanographic Normalization of SAR Images | *Python, Spyder IDE*

August 2020

Implemented Histogram Normalization approach for oceanographic SAR (Synthetic aperture radar) Images as a part of Indian Space Research Organization's (ISRO) project. Imposed multiple filters and intensity normalization, SAR images were normalized and dark spots or blur parts in the SAR images were minimized.

## Accomplishments / Extracurricular

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- Accepted Book Chapter in Springer, Book Name: Artificial Intelligence based Agriculture, Chapter Name: A computational approach for prediction and modelling of agriculture crop using Artificial Intelligence.
- Qualified in Top 5 in Hack4Cause 3.0 conducted by SSIT.
- Successfully cleared 2 rounds for HackerTech 2019 hosted by E-Cell Club, VIT University.
- AWS Fundamentals: Going Cloud-Native - Coursera.