

# Sai Divya Sivani Pragadaraju

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Passionate and enthusiastic graduate with strong coding skills and a good understanding of software engineering principles. Diligent and organized, a firm believer in constant learning and building efficient solutions. Amateur artist and Creative individual with a keen eye for detail.

## EDUCATION

### University Of Colorado Boulder, CO, US

Master of Science in Computer Science

August 2021 – May 2023

GPA – 3.87/4

**Coursework** - Deep Learning, Design and Analysis of Algorithms, Natural Language Processing, Object Oriented Analysis and Design (OOAD), Data Mining, Linear Programming, Data Center Scale Computing, Computer Vision

### B.V.Raju Institute Of Technology, Narsapur, Telangana, India

Bachelors of Technology in Computer Science

August 2016 – May 2020

GPA-9.01/10

**Coursework:** Java Programming, Advanced Data Structures, Database Management Systems, Web Technologies, Big Data Analytics, Internet of Things, Machine Learning

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, Java, C

**Web Technologies:** HTML, CSS, JavaScript, Node.js, Angular,

**Libraries and Frameworks:** Numpy, Matplotlib, Pandas, TensorFlow, Keras, Scikitlearn, Pytorch, Hugging Face, OpenCV, Flask

**Technologies:** MySQL, Docker, Kubernetes, REST API, Google Cloud Platform (GCP), Min.IO, Redis, Cloud vision API, Sendgrid API

**Key Skills:** Data Structures and Algorithms, Machine Learning and Deep Learning Algorithms

## EXPERIENCE

### Research Assistant

April 2022 - Present

Peleg Lab, CU Boulder

- Assisting Dr. Orit Peleg's research on honeybee swarm formation patterns by performing computational analysis on experimental video data
- Analyzing geometrical patterns in swarms using python libraries like OpenCV, NumPy, Pandas, Matplotlib, SciPy, Keras, Scikitlearn to comprehend how bees gather into swarms and uphold a stable structure in all circumstances

### Graduate Instructional Support staff- Machine learning

August 2021 – December 2021

Computer Science Department, CU Boulder

- Assisted over 60+ students in undergraduate level Machine Learning course and graded their assignments

## PROJECTS

### Website and Mobile Application for QI Path (Capstone):

- Engineering a cross-platform mobile application using NativeScript and Angular Framework
- Built REST API endpoints using Node.js which will be used by the website and mobile application
- Enhanced and modernized the current system by updating the codebase from PHP to Angular and Node.js framework

### Electronic Assistant for Prescription Drugs:

- Created an application that provides a distributed and scalable service by easing the process of buying prescribed medicines
- Utilized Google cloud Vision API to extract the list of medicines from the prescription and SendGrid API to send out the emails
- Used Min.io to store the uploaded images, MySQL to store the inventory of medicines and Redis queuing system to store the logs
- Implemented OpenFass serverless functions to enable the auto-scaling of pods
- Deployed the application using Docker and Kubernetes

### Apartment Finder website:

- Created a website that allows users to find an apartment, make a reservation to visit it and provide feedback
- Implemented backend using Java, Maven, Spring MVC framework, hibernate framework, JSP
- Used MySQL to store all apartment and user related information
- Frontend using HTML, CSS, and JavaScript

### Human Activity Recognition using smartphones:

- Developed a machine learning model that can identify some human activities from the data collected through smartphone's inertial sensors
- Utilized libraries such as Numpy, Pandas, Scikit-learn, matplotlib, Statsmodel, Spectrum
- Constructed a signal processing pipeline to process original data collected and built a Machine Learning pipeline to train models using GaussianNB, Decision-tree and Logistic Regression algorithms

### PCL using BERT:

- Identified patronizing and condescending languages from given a given paragraph
- Trained a classification model on dontpatronizeme\_PCL dataset
- Programmed using Hugging face library's Transformers and BERT pre-trained model
- Used NumPy, Pandas, TensorFlow, Scikit-learn, Pytorch as helper libraries