# Sree Bhargavi Balija

858-319-6721 sbalija@ucsd.edu linkedin.com github.com portfolio Location: San Diego, Ca


## Education

**University of California San Diego** **March 2024**
*Master of Science in Machine learning and Data science* ***CGPA: 3.8/4.0***
**Indian institute of Technology Hyderabad** **July 2020**
*Bachelor of Technology in engineering* ***CGPA: 9.1/10***

## Technical Skills

**Languages**: C/C++, Python, Java, Javascript, Angular, Kotlin, Prolog
**Web Technologies/Frameworks**: ChatGpt, Elastic Search, GitHub, SQL, Docker, Kubernets, WordPress
**Data Science:** Classical ML, DL, NLP, Search, Recommender Systems, Computer Vision, Visualization

## Relevant Coursework

- Statistical learning
- Data structures
- Search and optimization
- Algorithms
- Artificial Intelligence
- Recommend Systems
- DBMS
- Probabilistic models

## Professional Experience

**ServiceNow, Software engineer** | *Java, Js, Angular, Eclipse, Github* **June 2020 – August 2022**

- Worked on integrating multiple rest api's with ITSM workflows for adding virtual bot capabilities like Citrix cloud virtual systems access, manage meetings and request item flow, also integrated the topics with an NLU model for intelligent conversation flow
- Designed and developed the success dashboard which provides a prebuilt analytics to demonstrate the actual business value achieved through ServiceNow products.
- Streamlined the java code to demonstrate WebRTC screen share between Androids or Desktop browsers.

**Myhome, Data analyst** | *Matlab, Python, C++* **May 2019 – July 2019**

- Researched on various new technologies like optimization of scrap iron, digital elevation models in the industry and performed cost-benefit analysis for checking the feasibility of the product.

## Academic Projects & Research Experience

**BOSCH's Route Optimization, Inter IIT Technical meet 2019** | *Python* **Dec 2019**

- Developed an algorithm for generating efficient routes between two given cities covering the given pick points and satisfying constraints like minimum operational cost, the time window for travel and occupancy limit for a trip.
- Received silver medal in this challenge for securing the second position.

**Deep learning project in VIGIL lab, Prof.C Krishna Mohan** | *OpenCv, Deep learning* **Dec 2019 - Jun 2020**

- Worked on real-time object detection of videos using OpenCV Deep neural network module for traffic videos generated from CCTV footage
- Researched various deep learning techniques for crowd density estimation.
- Implemented a visual object detection system using VGG16 Architecture to find a location of a phone dropped on the floor from a single RGB camera image

**Apache spark structured streaming, Twitter tweets** | *Python* **September 2022**

- Initially, authentication operations and keys were obtained from Twitter API, Python module "Tweepy" and a stream listener named "Twitter data" was created to generate data for the Kafka topic "Global warming", Later the sentimental value of the tweets were calculated by using the afinn module.
- Streamed data was converted into structured data and placed in the SQL table and sentimental values were categorized into positive, negative, or neutral tweets based on the scores using Pyspart.sql functions.

**Text mining and sentimental analysis of Reddit content data** | *Python, Sentimental analysis* **October 2022**

- In this project, we have built a sentence transformer model for classifying the Reddit titles with the subreddit classes by using the all-mpnet-base-v2 and multi-qa-mpnet-base-dot-v1 semantic search models to map Reddit titles with 473-dimensional dense subreddit vector spaces.
- Developed multiple models using ridge regression, Mlp regressor for predicting the success rating of reddit posts with time and found mse was the least for elastic regression, Model accuracy was to be 90 percent for this model.

## Accolades/ Online Certifications

- **Academic excellence award**, IIT Hyderabad **2018**
- **Deep Learning and Natural language processing** specialization, Stanford completed 3 out of 5 courses. **2020**
- First position in **deep learning competition**, IIT Hyderabad annual fest **2020**
- Teaching Assistant, Introductory courses in physics, chemistry and engineering department website management **2018**
- Silver medal, International Master Mathematics Olympiad **2013**
- Representive of IITH in social online innovation collaborative hackathon **2020**
- Achieved Skill development incentive program award, ServiceNow **2021**