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: Elastic Search, GitHub, SQL, Docker, Kubernets, JavaScript, CSS, 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**

- Performed cost-benefit analysis on aspects like Digital elevation models, optimization of scrap iron, precast technology, scaffolding and also categorized the feasibility of the solution.

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 **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.
- Built deep neural network model for the gap acceptance of driving vehicles at Unsignalized intersections, class balance analysis and feature selection.

Tic Tac Toe Game design | *Python* **April 2020**

- Streamlined the python code for implementing a TIC TAC TOE playing algorithm using epsilon greedy method, Reinforcement learning technique.

Novels Recommendation System | *Python* **September 2022**

- Designed the books recommendation engine using bayesian personalized ranking method
- Rankings were given to the books based on the user preferences and confidence values from the dataset further books were recommended to the user based on the assigned rankings.

Text mining and sentimental analysis of reddit content data | *Python* **October 2022**

- Built reddit title classification model using sentence transformers from content titles and also developed word2vec, unigram, bigram and similarities models from the most correlated variables.
- Developed multiple models using ridge regression, Mlp regressor for predicting the success rating of reddit posts with time and found mse was least for elastic regression, observed model accuracy of 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**