Sai Srinivas Chetti

716-463-9046 | chettisa@buffalo.edu | linkedin.com/in/sai-srinivas-chetti-80027a79/

Education

University at Buffalo, The State University of New York — Buffalo, NY
Master's in Computer Science, GPA 3.83/4.0 — *Dec 2022*

Indian Institute of Technology, Kharagpur — West Bengal, India
Bachelors and Masters of Technology, GPA 7.6/10.0 — *May 2017*

Experience

HSBC Bank — June 2018 – July 2021
Data Scientist — *Mumbai, India*

- Developed Sentiment analysis model to classify customer feedback/complaints using bi-directional LSTM neural networks. Achieved 81% test accuracy. Developed a Multi class text classification model on top of it to classify text into 12 business categories such as credit cards, loans, debit cards.
- Implemented an Automatic Trigger program which tracks UPI transactions to trigger relevant offers to the customers.
- Took Initiative to build Diner Recommendation engine using user-to-user collaborative filtering to identify similarity between customers to send dining offers. Got recognized for my work and awarded with Amazon gift card.
- Designed and deployed centralized customer communication system with campaign management tool PEGA. Identified product requirement based on transactions, account details and demographics. Collaborated with product and marketing teams in agile environment to deliver content, data and coding requirements. Delivered more than 30 such campaigns which increased customer engagement by 27%.

Zemoso Technologies — July 2017 – May 2018
Software Engineer — *Hyderabad, India*

- Built speech-to-text conversion engine to analyze speech from recorded meetings and generate minutes/summary of the meeting. Used Mozilla DeepSpeech model and trained it with additional 5000 hours of recorded data.
- Developed web application with both front-end and back-end programming using Angular2 and Python flask. Web interface takes audio recording as input and displays predicted summary.

Academic Projects/ Internships

Monitoring and Predicting Social Unrest, Master's Project — SUNY Buffalo

- Used advanced deep learning techniques such as LSTM, BERT, Transformers to build sequence to sequence time series forecasting model which predicts the number of Social Unrest events that can occur in the near future.

RAFT based Consensus Distributed System - Prof. Bina Ramamurthy — SUNY Buffalo

- Developed docker based distributed web application called DonationApp allowing fail safe multi user access. Consensus among computing nodes is established using RAFT algorithm which is reliable, replicated, redundant and fault-tolerant.

Camera Calibration and Image Stitching, Computer Vision — SUNY Buffalo

- Given an Image, the model estimates the intrinsic properties of the camera.
- Panorama: Identified key points from images using Harris detector and extracted SIFT feature descriptors from the key points. Key points between the images are matched and filtered using ratio testing.
- RANSAC algorithm is applied to compute homography matrix, which is used for computing morphological transformations and ultimately appending images.

Decentralised Application using Blockchain Technology - Prof. Bina Ramamurthy — SUNY Buffalo

- Designed and developed a decentralised market place application using Ethereum protocol on Ropsten test network. Programmed smart contracts to verify, validate and record user transactions on distributed ledger.

Technical Skills

Course Work: Analysis of Algorithms, Intro to Machine Learning, Distributed Systems, NLP and Text Mining, Reinforcement Learning, Statistical Data Mining, Data Models and Query Languages, Computer Vision and Image Processing, Probability and Statistics, Blockchain Application Development.
Languages/Tools: Python, R, SAS, SQL, Solidity, Javascript, C/C++, Docker, Pytorch, tensorflow, keras, AWS, Mongo DB, HTML, CSS, Angular2, Python-flask, NodeJS, Tableau, React, Git.
Other Skills: Self discipline, leadership, sportsmanship, effective communication, Predictive Modeling, Natural Language Processing, Data Visualization, Data Mining, Big Data, Deep Learning, face detection, Data warehousing.