SAHITI CHEGURU

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EDUCATION

University of Southern California **AUG 2021-MAY 2023***
Master of Science in Computer Science *Los Angeles, California, United States*
Courses: Machine Learning, Database Systems, Analysis of Algorithms*, Foundations of AI*

Gokaraju Rangaraju Institute of Engineering and Technology **AUG 2017-AUG 2021**
B.Tech in Computer Science and Engineering; **CGPA: 9.61/ 10.0** *Hyderabad, Telangana, India*

WORK EXPERIENCE

Zeominds IT Solutions PVT. LTD **JUN 2019-JAN 2020**
Machine Learning Intern (NLP) *Hyderabad, India*

- Implemented AI chat bots using AI-markup Language and Dependency Parsing Algorithm.
- Developed opinion based sentiment analysis and brand analysis software for marketing campaigns using POS Tagging and Lexical SentiWordNet.
- Coordinated with the web scrapping team and worked intensively on Selenium Web Driver web crawling framework while dealing with Dynamic WebPages.

Advanced Academic Center (AAC) **AUG 2019-JAN 2019**
Python Programming Trainer and Project Mentor *Hyderabad, India*

- Taught python programming language to a class of 70+ students; Conducted discussion sessions, laboratory, quiz sections that supplement lectures; Graded assignments or examinations.
- Took responsibility as a project mentor and guided students for a project titled 'Image-based tomato leaves disease detection using VGGNet'; Demonstrated better results compared to LeNet, ResNet50, and Xception with a test accuracy of 99.25%.

PROJECTS

Politically Biased News Detection using Machine Learning **AUG 2020**

∗ NLP tools such as Bag-of-Words, Word Embeddings, and Doc2Vec along with Long Short Term Memory (LSTM) networks are used to identify political bias persisting in news articles and computes binary classification of articles by grouping them as biased and non-biased.

Optimal Hyperparameter Tuning of CNN for Visual Sentiment Analysis **APR 2020**

∗ Experimented the feature based and template matching methods for face detection such as YOLO, RetinaNet, Dlib DNN; Used CNN for feature extraction and V3 model for emotion classification.

∗ Performed Hyperparameter Tuning to find the optimal number of epochs and batch size needed to process the data and get the best accuracy measure and augmented the accuracy by experimenting with different optimizers.

RESEARCH EXPERIENCE

Deep Learning Methods for Forecasting COVID-19 Time-series Data **SEP 2020**

· In this paper, predictive models comprising various AI approaches such as Support Vector Regression (SVR), Long Short Term Memory (LSTM), Bi-Directional LSTM, Gated Recurrent Unit (GRU), VB-Neural network, CUBIST, RIDGE, stack ensemble learning and ARIMA model are assessed for time series prediction of confirmed cases, deaths, and recovered due to COVID-19.

Tensorflow Model in Medical Image Analysis- A Complete Review **MAR 2020**

· This review paper exhibits Tensorflow to investigate images in scanned CT medical images for visualization of abnormal conditions of live tumour in the context of shape and color towards disease diagnosis.

· Surveyed the utilization of Tensorflow for classifying images, detection of objects, analysis of liver cancer for genome classification and identification of lesions.

SKILLS

Languages: Python, C, C++, JavaScript, SQL, JAVA, XML, HTML
Frameworks: Scikit, NLTK, SpaCy, TensorFlow, Keras, Pandas, Tableau, Oracle-DBMS, Tomcat
Tools: PostgreSQL, MySQL, SQLite,PostGIS
Platforms: Windows, Unix, AWS, GCP, IBM Cloud

LEADERSHIP

President of Advanced Academic Center **AUG 2020- APR 2021**
Managed an executive board of 30 members, conducted conclaves, scheduled weekly progress meetings, prepared academic reports and annual calendar.

Manager for Outgoing Global Volunteer (OGV) team, AIESEC **FEB 2019- JUL 2019**