

Sri Manvith Vaddeboyina

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EDUCATION

University of Southern California, Los Angeles, CA

Master of Science in Computer Science

Aug 2022-May 2024

GPA: NA

Courses: Analysis of Algorithms, Database Systems

Jawaharlal Nehru Technological University, Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

July 2017-July 2021

Gold Medalist - CGPA: 9.52/10.0

TECHNICAL SKILLS

Languages: C/C++, Java, Python, HTML, CSS, JavaScript

Frameworks: Scikit, NLTK, Tableau, Spacy, Pandas, Django

Tools/Databases: Git, Visual Studio, Oracle-DBMS, MongoDB, MySQL

EXPERIENCE

Tata Consultancy Services Ltd.

AI/ML Developer, Digital NextGen R&D

Jul 2021-Jul 2022

Hyderabad, India

- Created these components of Cognitive Product Support: An Intelligent Search Engine based on Elasticsearch.
- **SeeD:** Constructed and integrated Table Parser feature for extracting tables from web and documents. Later prepared data for the Named Entity Recognition (NER) module DataLens and Natural Language Understanding (NLU) module WideAngle.
- **WideAngle:** Built a module based on Natural Language Understanding (NLU) utilizing Spacy, and BERT NLU engine. WideAngle aims at generating relations between entities identified in the NER module (DataLens).

Tata Consultancy Services Ltd.

Project Intern

Mar 2021-Jul 2021

Hyderabad, India

- Experimented and evaluated various machine learning and deep learning models on Malware Detection datasets: NetML and CICIDS2017, and Traffic Classification dataset non-vpn2016.
- Published the experimental results at NetML-Network Traffic Analytics Challenge 2020 organized by ACANETS. These results outperformed baseline results and stood in the top 5 leaderboard positions of challenge.
- Built a framework for end-to-end Machine Learning workflow (Data Ingestion, Exploratory Analysis, Data Preprocessing, Training, and Testing) using the Django framework.

PROJECTS

GATEZEE – An Automated Gate Pass Management System

Mar 2021

- Coordinated a team of 4 to devise an end-to-end system application that facilitates an easy flow of issuing and tracking gate passes issued during working hours. The VADER algorithm was used to determine the Percentage of Emergency (PoE) score for each gate pass request, prioritize each submitted request based on generated score and approve or reject each request based on a faculty's judgment. Acquired an accuracy of 91% based on real-world user data.

Intrusion Detection using Machine Learning Algorithms

Dec 2020

- Led a team of 4, to get a deeper understanding of features and types of attacks in the KDD'99 dataset. Built ML models by applying Logistic Regression, Support Vector Machines, Decision trees, and Random Forest algorithms.
- Created an interactive interface at user end; Devised an end-to-end machine learning workflow to visualize and validate model performance against classification metrics. The highest validation accuracy of 89% was given by Random Forest.

Employee Attrition in The Dawn of The Recession

Apr 2019

- Gathered employee data from multiple sources. Features such as age, environment satisfaction, income, and hike along with attrition based on history and preprocessed data employing data cleaning, scaling, balancing, and feature engineering techniques.
- Constructed an ML model by training data on Random Forest and Boosting algorithms to predict the probability of likeliness of employee attrition. Obtained an accuracy of 85% on real-world data fed through a GUI.

HONORS AND AWARDS

- Honored as Gold Medalist for the 2017-2021 batch in Computer Science and Engineering.
- Selected for IASc-NASI-NSA Science Academies Summer Research Fellowship 2020 and worked on Network Anomaly Detection under Prof. Dr. Bheemarjuna Reddy at the Indian Institute of Technology, Hyderabad.
- Published 3 research papers on Machine Learning related topics at various international IEEE and Springer conferences.
- Professionally certified with Diploma for Pre-Education Program conducted by EPAM Systems from Jan to Jun 2020.

LEADERSHIP AND INVOLVEMENT

- Served as head of the National Service Scheme (NSS) at VNR Vignana Jyothi Institue of Eng. and Tech. from 2018-2021.
- Mentored students at GirlScript.Tech - The Uplift Project, assisting with ideas and problems during the solution-building phase in 2019.
- Served as a community development volunteer at GHMC Swachh Hyderabad Internship Program 2018, motivated citizens on Solid Waste Management.