MANIDEEP ANNARAPU

+1(940) 220-0208 ◇ manideepannarapu@my.unt.edu ◇ Denton, TX

EDUCATION

Master of Computer Science, **(GPA: 4.0)** **Jan 2023 - May 2024**
University of North Texas - Denton,Texas.
Coursework: Big Data and Data Science, Machine Learning, Fundamentals of Database, Computer Algorithms, Software Engineer, Information Retrieval, Computer Architecture, Computer Networks, Natural Language Processing

Bachelor of Technology - Computer Science, **Jun 2018 - Aug 2022**
St. Martin's Engineering college - Hyderabad, India

SKILLS

C, C++, Java, HTML, CSS, Javascript, Python, SQL, Tableau, Power Bi, Linux, **Hadoop** - Hive, Apache spark, Cassandra, Pyspark, HDFS, Pandas, Pytorch, Plotly, ASP.Net, Django, **Machine Learning**-TensorFlow, keras, MatplotLib, SciKit-learn, classification, Regression, Clustering, Version control(GitHub), **AWS** - EC2, EMR, S3.

EXPERIENCE

Teaching Assistant, University of North Texas, Denton, TX **Aug 2023 - May 2024**

- Assisted in instruction of CSCE-4110 Algorithms, focusing on strategies like divide and conquer, greedy algorithms, and dynamic programming, with an emphasis on Data structures analysis and algorithm correctness.

Summer AI/CS Research, University of North Texas, Denton, TX **May 2023 - Jul 2023**

- Worked on Dimensionality reduction-Independent component analysis(ICA), principal component analysis (PCA).
- Mainly focuses on teaching neural efficient coding through android application and accessible notebook.

ML Engineer, Onlane Solutions Pvt Ltd, Hyderabad, India **Jul 2022 - Dec 2022**

- Collaborated closely with product development and engineering teams to create Machine Learning models, incorporating technologies such as natural language processing (NLP), machine learning, and computer vision.

Intern, Value Labs, Hyderabad, India **Mar 2022 - Jun 2022**

- Worked on TestNG framework, selenium and web driver with team by following Agile methodologies.

PROJECTS

Prediction and Global Analysis of Mental health **Dec 2023**

- Worked on performing analysis on mental health reports of students.
- Random Forest classifier is used for classification of depression status and Random forest regressor is used for regression, where the CGPA is predicted based on Depression level.
- Global trends in the mental health are analyzed by incorporating the Ensemble methods, that includes combining of Random Forest Regressor and Gradient Boosting Regressor, helps in predicting Happiness Score. Hyperparameters tuned using GridSearchCV for Random Forest to get the best model.

Forecasting customer buying products using big data and data science **Nov 2023**

- Worked on analyzing the customer buying habits to enhance customer experience and employ marketing strategies for the industries. We have Stored the dataset in Hadoop HDFS and Hive is used to perform analysis.
- Pyspark is used for the analytics and Integrated Spark with HDFS. Random forest is used as part of classification and Multi class classification evaluator is used to evaluate results. Matplotlib and seaborn used for visualization.

Content based Image retrieval **July 2023**

- Developed model, which takes image as an input and displays the similar images as the output to the console.
- Used VGG16 model from TensorFlow library to extract the features from the input and dataset.
- Using cosine similarity, matched both the input image and the dataset to visualize similar ones using Matplotlib.

Med-Bot **Feb 2022 - Mar 2022**

- Built a chat bot system on Machine learning to provide support to the pregnant women in answering the queries.
- Used NLTK and scikit-learn to train model and created a website using JSON, Django.