Anisha Yidala

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Education

MS in Computer Science | George Mason University, USA January 2021 - December 2022

Bachelors in Computer Science & Engineering | GITAM University , India June 2015 – April 2019

Relevant Coursework: Analysis of Algorithms, Theory and Application of Data Mining , Software Engineering for the Worldwide Web, Database Management Systems , User Interface Design and Development , Mobile Immersive Computing , Advanced Natural Language Processing , Object Oriented Software Specification and Construction **,** TensorFlow Deep Learning and AI

Machine Learning: Natural Language Processing in Python | UDEMY(UC-4f54538e-1df7-4755-aed5-598db712dfe9)

Work Experience

Software Engineer ML | Tech Talent Connect, USA May 2023 – Present

Python , TensorFlow, PyTest

- Working on models for intent recognition, entity recognition and sentiment analysis for a Text Based Virtual Assistant using **Large Language Models (GPT)**

Information Technology Teaching Associate | George Mason University , USA August 2021 – December 2022

- Providing practical training to students at undergraduate level in several new age **Data Mining & Machine Learning Algorithms** , **Web Technologies , Cloud Technologies , Databases , Cybersecurity Techniques** and designing projects , tasks and assignments to correspond to their overall understanding of data science , networking and computing technologies.

Software Engineer | Tata Consultancy Services, India January 2020 – January 2021

Java , HTML5, CSS3 jQuery , JavaScript , Azure

- Implemented various Validation Controls for form validation and implemented custom validation controls with **JavaScrip**t and **jQuery.** Developed dynamic web pages using **HTML5, CSS3 jQuery , AJAX, JSON and XML.**
- Worked extensively on **Azure** in a **DevOps** environment. Developed and deployed various Micro Services using automated (**CICD) Continuous Integrations and Continuous Deployments.**
- Using **Agile methodology** and **SCRUM** to study the system, consolidating requirements, establishing interposes relations and team communication

Project Experience

Identification of Italian Language Dialects

Python , PyTorch ,NumPy ,NLTK, BERT

- Implemented a transformer model to identify **11** different dialects of Italian Language using Natural Language Processing techniques on over **260516 documents** from Wikipedia dumps.
- Trained a **BERT** model from **HuggingFace** to accurately identify dialects and achieved an **81% accuracy**. Improved and analyzed model performance and interpretability using language-specific techniques.
- Utilized **Python**, **PyTorch**, and **NLP** techniques to fine-tune transformer models.

Text Classification With Neural Nets

Python , TensorFlow , NLTK

- Executed the implementation of a **Feed Forward Neural Network** to construct a sentiment classifier, categorizing movie reviews sourced from Rotten Tomatoes into positive and negative classes using **Python** and **TensorFlow**.
- Developed the **FFNN model**, drawing inspiration from the **Deep Averaging Network model.** Incorporated **Word2Vec** embeddings and employed an **ADAM optimizer** for the initial classification.
- Attained a notable **78.7% accuracy** for our model by systematically exploring performance variations. Experimented with **different learning rates, vector dimensions, optimization methods, and integrated open-source GloVe embeddings** to optimize and enhance efficiency.

Fake News Vs Real News

Python , Pandas , Sklearn ,Spacy

- Implemented a **two-phase classification model** on a text dataset of news articles predicting the authenticity (real or fake) and categorizing articles based on their content using **Python.**
- Applied **Natural Language Processing techniques**, leveraging libraries like **Pandas, Sklearn, and Spacy** for data preprocessing. Conducted feature extraction, implemented various **classification models**, and selected the most efficient model with an impressive accuracy of **96.3%.**

Credit Risk Prediction

Python , Pandas , Matplotlib , Sklearn

- **Developed a predictive** model that classifies every given individuals credit risk as high and low risk using **Python** libraries **Sklearn , Pandas** and **NumPy . Analysed the correlation** among all the features of the training data to understand how each feature is impacting the credit scores of the individuals and represented them using **Matplotlib.**
- Implemented **SVM , Decision Tree Classifier , Random Forest Classifier and the XGBoost Classifier** all four models to predict the risk and observed that the **Ensemble Methods** like RFC and XGB classifiers are **12%** more efficient compared to others.