

JAYANTH KOTHAPALLI

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Education

NIT Warangal

Nov.2022 – Aug.2025

Bachelor of Science in MATHEMATICS

CGPA: 9.11/10.0

Relevant Coursework

- Artificial Intelligence
- Mathematical Statistics
- Mathematical Analysis
- Algebraic Structures
- Linear Algebra
- Numerical Analysis
- Python/C/C++/Java programming languages

Experience

NIT Warangal

Oct 2023 – Present

Natural Language Processing Researcher

- Goal: Explore the correlation between sarcasm and stress to establish sarcasm detection as a valuable tool for enhancing stress assessment accuracy, aiming to provide targeted support for individuals with high sarcasm usage.
- Revolutionized stress assessment in the field of mental health by implementing a cutting-edge, objective, and non-invasive approach using Natural Language Processing (NLP) techniques; resulted in significantly improved mental health outcomes and patient satisfaction, validated through a 20 percent reduction in reported stress levels in clinical trials.
- Current Focus on Evolutionary Computation Techniques: Working on the application of Evolutionary Computation Techniques to enhance the efficiency of neural network architectures such as CNN, LSTM, BiGRU, BiLSTM, etc., with the goal of optimizing their performance in the context of stress assessment.

DeepThought Growth Management System

May 2023 – June 2023

Behavioral Data scientist and Growth Hacking

Work from home

- Building a Multilingual YouTube Ecosystem: Our mission is to empower YouTubers worldwide by automating video creation across multiple languages. we aim revolutionize content creation and engagement
- Led the implementation of a sophisticated Audio-to-Text transcription system, realizing a 95percent accuracy rate and cutting down over 50 hours per week in manual transcription efforts.
- Utilized advanced language tools like Whisper, Llama-2, and the Wave2lip library for powerful language processing in past projects.

Projects

Multitask-Stress and Sarcasm Classification | Python, Google colab

october 20223

- Goal:Develop multitask deep learning models to explore sarcasm's impact on stress in four datasets, using Glove embeddings and advanced text preprocessing.
- Impact: Improve stress prediction accuracy by integrating sarcasm-related features, potentially transforming stress assessment methods.
- Observation: Notable impact on stress prediction accuracy observed in one dataset when sarcasm-related features were included, highlighting sarcasm's significance in influencing stress levels.
- I employed Python alongside TensorFlow/PyTorch for deep learning and integrated Glove embeddings. Implemented a comprehensive text preprocessing approach, covering lowercasing, removal of HTML tags and URLs, punctuation removal, spelling correction, stemming, stopwords elimination, and tokenization.

Quora Duplicate Questions Classification | Python, Google Colab

July 2023

- objective: It is a kaggle competetion problem where we have to classifiy the given two questions are duplicate or not.
- solution: Got an accuray of 72percent. After seeing the top accuracy in kaggle leaderborad. I thought to perform advanced Feature extraction(like Fuzzy features) and added more 15 columns to the dataset. Finally got an accuracy of 80percent.
- Tools technologies used are numpy, pandas, seaborn, Regular Expressions(re), NLTK, SVM,

Technical Skills

Languages: Python, C

Developer Tools: Vs code, Jupyter notebook, Pycharm, DevC++, Google Colab, Git, Github

Technologies/Frameworks: Object oreinated programming, Numpy, Pandas, Matplotlib, seaborn, Scikit-Learn, TensorFlow, Keras, Binary-Coded and Real-Coded Genetic Algorithms, Machine Learning, Deep Learning NLP, Gensim, NLTK, Transformers, LLMs

SCHOLASTIC ACHIEVEMENTS

- Achieved a score of 800/900 in the Azure AI-900 Fundamentals Exam, showcasing comprehensive knowledge and proficiency in fundamental concepts of Azure AI technologies.
- In 1st year i was awarded Institute Merit cum scholarship for securing HIGHER RANK in Class..