Anumola Niharika Varma

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About

I am a final-year B.E. student specializing in Artificial Intelligence and Machine Learning at University College of Engineering, Osmania University. Passionate about applying AI/ML techniques to solve real-world problems, with hands-on experience in building predictive models, natural language processing. Eager to contribute my skills to innovative projects and continue expanding my expertise in AI/ML research and development.

Technical Skills

- **Programming Languages:** Python,C,Java,SQL.
- **Specialities:** Exploratory Data Analysis(EDA),Data Structures And Algorithms(DSA),Data Mining,Database Management Systems(DBMS),Computer Networks,Machine Learning,Natural Language Processing.
- **Libraries and Tools**: Pandas,Matplotlib, Seaborn,Scikit-Learn,Numpy,Qiskit,Git for Version Control.
- **Web Development**: HTML,CSS,ReactJS.

Projects

Intelligent Resume Classification and Job Matching System

- **Developed a machine learning model using Random Forest and BERT for intelligent classification of resumes based on job categories.**
- Implemented a multi-label classification system using Random Forest to provide top-N job recommendations for parsed resume text.
- Built a Gradio-based user interface for uploading PDFs, parsing resumes, and displaying both classified job titles and parsed resume content,managed training and evaluation of models on a dataset of 13,389 resumes.

Text Summarization | Github

- **Demonstrated Text Summarization using TextRank,TF-IDF,LSA,T5,Pegasus,BERT-based models.**
- Evaluated text summarization models, including Pegasus, and leveraged machine learning techniques for analysis.
- Demonstrated that Pegasus Delivers superior Accuracy and coherence in summary compared to traditional methods of Summarization like TF-IDF,TextRank.

Parallelizing Sequential Cryptography Algorithms | Github

- **Implemented RSA,AES algorithms on CPU,GPU and Shor's Algorithm on Quantum Backend using IBM Quantum Platform**
- Explored RSA and AES encryption on classical hardware and how Shor's algorithm can break RSA on quantum computers.
- Demonstrated that traditional cryptographic algorithms like RSA are vulnerable to quantum algorithms, emphasizing the need for quantum-resistant encryption.

Additional Activities

- Member of **Robotics And Automation Society(RAS) of IEEE.**
- **Member of GDSC(Google Developer Student Club)**
- **Volunteered in GAM-2023(Global Alumni Meet)of Osmania University.**
- **Successfully organized a technical event TechTriAIthlon in the INFINITY 2K23,National Level Technical Symposium of University College of Engineering,OU,CSE Department.**

Education

University College of Engineering,Osmania University,Hyderabad **2021 – 2025**
Bachelor of Engineering in Artificial Intelligence and Machine Learning *CGPA - 8.23/10*

KrishnaMurthy Junior College,Vidyanagar,Hyderabad **2018 – 2020**
Intermediate *Score - 939/1000*