Gandluru Mohammed Yaseen

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Skills

- **Languages**: Python, SQL
- **Frameworks**: MLOps, Scikit-Learn, NLTK, PyTorch, TensorFlow, Keras, Flask, Streamlit, MongoDB, Huggingface
- **Tools**: Docker, GIT, MySQL, Power BI, Tableau, Microsoft Excel, MongoDB Compass
- **Amazon Web Services**: S3, EC2, Kinesis Data Streams, Kinesis Data Firehose, FSx, Lambda.
- **Soft Skills**: Leadership, Writing, Public Speaking, Time Management

Internship

- **Data Valley.ai** — Remote
  Machine Learning Intern (Full-time) — *Jan 2024 – May 2024*
  - **Recommendation System**: Implemented a movie recommendation system using user preferences, past viewing history, and popularity metrics. Explored collaborative filtering techniques like Boltzmann Machines and Cosine Similarity.
  - **Flask-based Web Interface**: Developed an interactive web service using Flask to deploy the recommendation model.
  - **Solution Design**: Proposed data-driven solutions to real-world problems using Machine Learning and AI approaches.
  - **Tech Stack**: Python, Flask, PyTorch, Hugging Face Transformers, Linux

Projects

- **SAR Image Colorization for Comprehensive Insight Using Deep Learning Models**:
  - **Methodology**: Research oriented GAN architectures for SAR image colorization and enhancement using Pix2pix along with Custom perceptual loss.
  - **Results**: Achieved 0.97 SSIM, 27.42 dB PSNR, and 0.0021 MSE. A jump of 510% in SSIM and 143% in PSNR compared to the baseline.
  - **Tech**: Streamlit, PyTorch, OpenCV, Generative Models, Image Translation
- **Audio Deepfake Detection**:
  - **Methodology**: Designed a high-performance AI model for detecting synthetic audio manipulation, utilizing CNN, RNN, and LSTM architectures.
  - **Results**: Achieved 98% detection accuracy with MFCC-LSTM and 96% with LFCC-LSTM. Enhanced feature extraction techniques using MFCC and LFCC.
  - **Tech**: PyTorch, Librosa, Streamlit
- **Explicit Content Detection using Attention Mechanisms**:
  - **Methodology**: Built deep learning models using Vision Transformer (ViT) and Swin ViT for high-precision feature extraction.
  - **Results**: Achieved 98.35% accuracy with a 2% improvement over previous methods.
  - **Tech**: PyTorch, Hugging Face Transformers, Linux
- **RAG based Question Answering System using LLMs and Real-Time Search**:
  - **Methodology**: Built a QA system integrating Serper API for real-time Google search results and Ollama LLM for response generation. Used Streamlit (frontend), Flask (backend), and MongoDB for user data storage.
  - **Results**: Delivered a functional, real-time QA platform with dynamic, context-aware responses.
  - **Tech**: Ollama, Serper API, HuggingFace, Flask, Streamlit, MongoDB

Certificates

- Medical Image Processing from NPTEL — October 2023
- Reinforcement Learning from NPTEL — October 2023
- Introduction to Machine Learning from NPTEL — April 2023
- DeepLearning.AI Natural Language Processing from Coursera — January 2025
- DeepLearning.AI TensorFlow Developer Certification from Coursera — September 2024

Honors and Awards

- Runner-up for Best Final Year Project – Ample Event — 2024

Education

- **Lovely Professional University** — Phagwara, India
  Master of Technology - Artificial Intelligence & Machine Learning; GPA: 8.89 — *July 2024 - Present*
  Courses: *Machine Learning, Image Processing, Computer Vision*
- **Sri Venkateswara Engineering College** — Tirupathi, India
  Bachelor of Technology - Artificial Intelligence & Machine Learning; GPA: 7.82 — *Dec 2021 - May 2024*
  Courses: *Machine Learning, Natural Language Processing, Deep Learning*
- **Government Polytechnic College** — Anantapur, India
  Diploma - Electronics and Communication Engineering; GPA: 8.3 — *July 2018 - May 2021*
  Courses: *Digital Logic, Electronic Devices, Networking*