JULA HARSHAVARDHAN

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SUMMERY

I'm a Computer Science student passionate about Artificial Intelligence and Machine Learning. I enjoy solving problems with Python and transforming data into impactful insights. I've built and launched ML models—from chatbots that communicate naturally to systems predicting outcomes with accuracy. My focus lies in designing scalable and reliable AI systems. I'm eager to collaborate with teams that value innovation, learning, and high-quality engineering.

EXPERIENCE

AI/ML Intern   Nov 2024 – Apr 2025
Angadi Technologies Pvt. Ltd.   *Remote*

– Designed and trained LSTM-based chatbot and translation models using TensorFlow, Keras, and PyTorch.
– Integrated GPT-2 into NLP pipelines for generating natural text and detecting sensitive content.
– Built REST APIs with FastAPI and Flask for real-time model inference.
– Processed large datasets, performed feature extraction, and fine-tuned models for better accuracy.
– Collaborated with developers and data engineers to deploy ML components in production systems.

PROJECTS

AI Chatbot System with GPT-2, FastAPI, and RAG Pipeline – Python, GPT-2, FastAPI, MongoDB, WebSockets

– Developed a conversational AI system combining GPT-2 with a Retrieval-Augmented Generation pipeline for context-aware responses. Integrated FastAPI with WebSockets for real-time communication, stored chat history in MongoDB, and added human handoff for seamless transitions.

Gold Price Prediction using Machine Learning – Python, Scikit-learn, Pandas

– Built a regression-based model to forecast gold prices using cleaned and correlated historical datasets. Visualized insights and feature importance using Matplotlib and Seaborn for interpretability.

Brain MRI Image Classification using Deep Learning – TensorFlow, Keras, CNN

– Designed a CNN-based model to classify brain MRI images and detect abnormalities. Applied preprocessing, normalization, and augmentation techniques. Optimized performance through hyperparameter tuning and validation.

PG Life Management System (Web Application) – HTML, CSS, JavaScript, Flask, Bootstrap

– Developed a full-stack web app to manage paying guest accommodations. Built backend APIs with Flask, integrated user authentication, and created a responsive UI using Bootstrap.

TECHNICAL SKILLS

Python, C, TensorFlow, Keras, PyTorch, Scikit-learn, LSTM, CNN, GPT-2, Transformers, Hugging Face, LLM Fine-tuning, NLP, Text Preprocessing, Tokenization, Sentiment Analysis, NumPy, Pandas, Matplotlib, Seaborn, Flask, FastAPI, REST API Development, System Integration, MongoDB, SQL, HTML, CSS, JavaScript, Bootstrap, Git, GitHub, Jupyter Notebook, VS Code, Tableau, Azure ML, Google Colab, Model Tracking, Pipeline Automation.

CERTIFICATIONS

– NPTEL: Cloud Computing, Natural Language Processing
– Internshala: HTML, CSS, JavaScript, Bootstrap
– Indoskill: Python Programming and Applications

EDUCATION

Nagarjuna College of Engineering and Technology   2021 – 2025
B.E. in Computer Science Engineering (AI & ML) – GPA: 7.3/10   *Bengaluru, India*

Narayana Junior College   2019 – 2021
Intermediate – 75.8%   *Anantapur, India*

Zilla Parishad High School   2018 – 2019
Secondary Education – GPA: 7.0/10   *Kambadur, India*