Shreerama D S

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Summary

Enthusiastic and detail-oriented final-year B.Tech AI and ML student at Dayananda Sagar University with a strong foundation in artificial intelligence, machine learning, and deep learning. Proficient in Python, TensorFlow, PyTorch, and large language models (LLMs), with hands-on experience in developing and fine-tuning models such as GANs, RNNs, CNNs, and autoencoders. Skilled in applying cutting-edge AI techniques to solve complex problems, optimize workflows, and develop scalable solutions. Experienced in working with large datasets, deploying AI-driven applications, and publishing research in IEEE. Passionate about leveraging AI to drive innovation and eager to contribute to transformative, high-impact projects while continuously advancing technical expertise.

Education

Bachelor of Technology in Artificial Intelligence **Jan 2021 – Mar 2025**
Dayananda Sagar University Bangalore, India
Expected Graduation: [2025]
CGPA: 8.4

Skills

- **Programming Languages:** Python, HTML, CSS, SQL, C, JavaScript
- **Machine Learning:**
  - **Supervised Learning:** Classification models (Logistic Regression, Naive Bayes, k-NN), Decision Trees, Random Forest
  - **Unsupervised Learning:** K-means Clustering, PCA
- **Deep Learning:** NLP, CNN, RNN, LSTM, GAN, Autoencoders
- **AI Frameworks:** LLM, Generative AI, RAG, PyTorch, TensorFlow
- **Tools & Technologies:** GPT, BERT, Keras, APIs, Git, Jupyter, PyCharm, Replit
- **Data Analysis:** Pandas, NumPy, EDA, Data Visualization
- **Other:** Image Processing, Computer Vision, Problem-Solving

Experience

AI Intern, Hindustan Aeronautics Limited (HAL) **July 2024 – Aug 2024**

- Worked on **Digital Image Compression Using Deep Learning**, improving the HiFiC model for lossless and high-quality compression, resolving critical errors to enhance performance
- Gained hands-on experience in deep learning frameworks, model optimization, and image processing, contributing to the success and efficiency of the project.

Projects

1. **Cysinfo AI** Link
   - ***Description:*** Fine-tuned **LLaMA 3.1** using **LoRA** and domain-specific datasets to achieve high contextual accuracy for cybersecurity and ethical hacking queries, improving response accuracy for Kali Linux commands by **20%**. Developed web interface, integrating advanced NLP APIs, deployed the model on **Ollama server**, optimizing query processing latency by **30%**
   - ***Skills Highlighted:*** LLMs, Generative AI, AI Development
2. **DocuSense** Link
   - ***Description:*** Designed an AI-powered documentation assistant utilizing advanced **Retrieval-Augmented Generation (RAG)** with **LangChain**, **LLaMA 2**, and **Nomic Embed Text** to enable real-time query resolution and contextual awareness. Developed and deployed an interactive application using Streamlit, integrated with the Ollama server.
   - ***Skills Highlighted:*** RAG , LLaMA 2, LangChain, Generative AI, AI Development, Streamlit, NLP.
3. **Voice Genius : It's Echos of Intelligence** Link
   - ***Description:*** Developed an AI-driven voice assistant using **OpenAI API** and SpeechRecognition. The application processes spoken questions and provides answers in both voice and text formats.
   - ***Skills Highlighted:*** NLP, Speech Recognition, API Integration, Deployment
4. **Beyond Skin-Deep: Melanoma Detection** Link
   - ***Description:*** Implemented and optimized deep learning models for melanoma detection, focusing on hyperparameter tuning and performance evaluation.
   - ***Skills Highlighted:*** Deep Learning, Image Classification, Hyperparameter Tuning

Publications

Voice Genius: It's Echos of intelligence

- Published in the proceedings of the 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IEEE. Link

Certifications

Machine Learning (Coursera) **June 2023**

- Completed ***Andrew Ng's Machine Learning*** course, gaining foundational skills in supervised and unsupervised learning, offered by ***Stanford University***