Hariprasad AP

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Career Objective

Final-year MCA student specializing in AI and Data Science, with hands-on experience building NLP pipelines using Sentence Transformers and FAISS, and computer vision models using TensorFlow/Keras. Skilled in Python, data preprocessing, and LLM API integration. Looking to apply practical ML knowledge in a real engineering environment as an AI Engineer Intern.

Education

Presidency College (Autonomous) — Bengaluru, India
Master of Computer Applications (MCA) — *Nov 2024 – Aug 2026*

College of Applied Science IHRD — Calicut, India
Bachelor of Computer Applications (BCA) — *Jul 2021 – Apr 2024*

Projects

Local AI File Search Assistant — Final year project
Python, PySide6, Sentence Transformers, FAISS, SQLite — *GitHub: har1prasad/ai-file-search-assistant*

- Built a fully offline desktop application that recursively scans folders and indexes file content into a local SQLite database.
- Implemented semantic search using Sentence Transformers to generate dense vector embeddings from file content.
- Integrated FAISS for fast vector similarity search, returning top-5 ranked results with cosine similarity scores.
- Designed a PySide6 desktop UI with no cloud dependency — all inference runs locally on-device.

Scrappy_AI — AI-Powered Web Scraper
Python, Selenium, BeautifulSoup, Streamlit, Google Gemini API — *GitHub: har1prasad/Scrappy_AI*

- Built an AI-powered web scraper using Selenium and BeautifulSoup to extract and parse website data.
- Integrated Google Gemini API for natural-language-driven parsing and structured data extraction.
- Developed a Streamlit-based interface for easy input, content cleaning, and result visualization.
- Experimented with local LLM inference using DeepSeek via Ollama and migrated to Gemini API after benchmarking latency and accuracy.

CNN Image Classification Model — Cats vs Dogs
Python, TensorFlow, Keras, NumPy, Matplotlib — *GitHub: har1prasad/my-first-cnnmodel*

- Designed and trained a Convolutional Neural Network using TensorFlow/Keras for binary image classification.
- Built an image preprocessing pipeline including resizing, normalization, and batched dataset loading.
- Evaluated model using accuracy and loss metrics; built an inference pipeline for predicting new images.

Technical Skills

Languages: Python, SQL, Basics of (C/C++ and Java)
AI & ML: Sentence Transformers, FAISS, CNN (TensorFlow/Keras), LLM API Integration, NLP Fundamentals
Data & Preprocessing: Pandas, NumPy, Matplotlib, Data Preprocessing, Model Evaluation Metrics
Frameworks & Libraries: Streamlit, PySide6, Selenium, BeautifulSoup
Databases & APIs: SQLite, MySQL, REST APIs
Tools & Platforms: Git, GitHub, VS Code, PyCharm, Linux/Unix
Core Concepts: Object-Oriented Programming, Semantic Search, Web Scraping

Certifications & Practice

Certifications:
– The Complete Python Pro Bootcamp – Udemy
– Deloitte – Data Analytics Job Simulation
– Deep Learning with Python: CNN, ANN & RNN Specialization – Coursera
– AI Fluency: Framework & Foundations – Anthropic