Sarvesh Kannan

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Education

Amrita Vishwa Vidyapeetham, Coimbatore **Sep 2022 – Present**
Bachelor of Technology in Artificial Intelligence *cgpa - 7.22*

Experience

Zoho **May 2025 – June 2025**
Artificial Intelligence Intern, Zoho Code. *On-Site*

- Built Co-Clone, an AI-powered code editor with Ollama and deepseek-coder:6.7b, achieving 150ms average latency and 25% development efficiency improvement via HTTP/2 streaming.
- Developed a multilingual RAG-based translation engine (EN-HI-TA) using Sentence Transformer and FAISS, with SQLite for translation memory and Sarvam API fallback, yielding 92% accuracy and 120ms average matching time.
- Created SarvX Code AI Assistant, a RAG system for code explanation using deepseek-r1:8b, CodeT5, and Pinecone, reducing code comprehension time by 30%.

Infosys Springboard **Oct 2024 – Dec 2024**
Data Visualization Intern & Team Lead *Remote*

- Led a team of 7 managing GitHub repos to ensure seamless collaboration and version control for 5+ Power BI dashboards across sales and customer datasets.
- Enhanced a dataset (1,470 rows, 35 columns) by engineering 13 new features using advanced EDA techniques such as classification, binning, and weighted features.
- Developed a 3-page Power BI dashboard with cards, bar charts, Q/A, and Key Influencer visuals, implementing drill-through and slicers; integrated AI chatbot (Arria) for real-time query insights.
- Deployed dashboard via Python Flask web app (HTML/CSS/JS), uncovering key insights: 35% lower job satisfaction among younger employees, 30% higher stock options for middle-aged, and 53% increased job threat perception in researchers vs. sales.

Projects

Nalam AI | *Python, APIs* **GitHub**

- Intelligent Medical Companion: Developed an AI-powered medical app using TrOCR, NER, and BioBERT, achieving 97% accuracy in medicine identification and retrieval, even when the tablet's name is partially visible.
- Medical Report Analysis: Built an OCR-based pipeline with ClinicalBERT and Pegasus-X, improving health insight extraction by 85%.
- Diet Recommendation System: Designed a 7-day personalized diet recommendation system using LLaMA 3.1, LoRA, and Amrita Kochi Medical College food data, achieving 92% accuracy.
- Optimized LLM Fine-Tuning: Enhanced retrieval-augmented LLM fine-tuning with vector databases, reducing query response time by 60%.

Wildlife Classification and Safety Protocol System | *Python, XAI, CrewAI, APIs, Computer Vision* **GitHub**

- Developed an AI-powered wildlife classification system using EfficientNet-B3 on a 25,000-image dataset spanning 20 animal classes, achieving 96% accuracy and 0.11 false positive rate using Efficient Net B3.
- Enhanced model interpretability by implementing GradCAM, SHAP, DeepLift, and Integrated Gradients for transparent decision-making.
- Leveraged CrewAI with Gemini API to coordinate 4 autonomous AI agents handling classification, explanation generation, safety assessment, and protocol deployment.
- Designed and validated adaptive, species-specific safety protocols with a 97.2% correct trigger rate for real-time deployment in remote field conditions.

Technical Skills

Languages: Python, SQL, R, TypeScript, Java
Machine Learning & AI: NLP, Deep Learning, Computer Vision, Transformers, LLMs, Fine-tuning LLMs
Databases: MS SQL Server, PostgreSQL, MySQL, Vector Databases, Cassandra, Apache Spark, Big Data, ETL.
Developer Tools: Jupyter Notebook, Power BI, Tableau, Azure, Git, GitHub, Excel
Technologies/Frameworks: TensorFlow, PyTorch, Scikit-Learn, NLTK, spaCy, Hugging Face, Flask, Streamlit, Ollama, PySpark,Phi-Data,gradio,OpenCV,XAI.

Certifications/ Extracurricular

- IBM Professional Data Science Certification
- TechA Data Analytics using Power BI Foundation Certification
- 3x Silver & 1x Bronze Medalist, Inter-Amrita Swimming Competition across 7 campuses