Albin George Kurian

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Education

Dhanalakshmi Srinivasan College of Engineering **2021 – 2025**
Bachelor of Engineering in Computer Science CGPA: 7.7/10 *Coimbatore, Tamil Nadu*

Relevant Coursework

- Java
- Python
- NLP
- Deep Learning
- Data Structures and Algorithms
- Data Science Tools
- Time Management
- Email Writing
- OOP
- Communication
- AI Primer Certification

Internship Experience

Infosys Springboard **October 2024 – December 2024**
AI Chatbot Development Intern *Online*

- Developed and optimized the Retrieval-Augmented Generation (RAG) model to enhance overall performance.
- Accelerated semantic search using FAISS and SentenceTransformers, enabling real-time query responses.
- Fine-tuned BERT and LLama 2 models and integrated additional advanced models to further improve domain-specific retrieval tasks.
- Attended weekly remote stand-ups and participated in team discussions.

Projects

Chat with your Document | *Python, LangChain, TensorFlow, streamlit, scikit-learn*

- Designed and implemented an AI-powered chatbot to interact with uploaded documents, leveraging LLM-based Retrieval-Augmented Generation (RAG) for contextual responses.
- Developed an intuitive Streamlit-based front-end for seamless user interaction.

Sentiment Analysis | *Python, NLTK, scikit-learn, Logistic Regression, Google Colab*

- Trained the model on a dataset with 1.6 million tweets, obtained from the Sentiment-140 dataset on kaggle.
- Utilized scikit-learn to construct and train a Logistic Regression model, achieving high accuracy in sentiment prediction.
- Applied text preprocessing techniques, including tokenization and TF-IDF vectorization, to enhance model performance and data handling efficiency.

Technical Skills

Programming Languages: Java, Python
Frameworks:NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, LangChain,
Tools: Git, GitHub, Google Colab, Jupyter Notebook, Streamlit, IntelliJ

Achievements

- Published research in IEEE on improving the performance of supervised machine learning algorithms on small datasets.
- Achieved 3rd place in a 450+ participant debugging contest, solving 10+ complex Python & Java challenges.
- Organized a Hackathon on Programming Fundamentals for 50+ participants, fostering skill development in emerging technologies.
- Earned top AI certifications, including the AI Primer certification from Infosys Springboard and the Machine Learning Specialization Coursera