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PROFESSIONAL SUMMARY

Artificial Intelligence and Data Science undergraduate with a strong foundation in Python, machine learning, deep learning, and data analytics. Experienced in developing scalable AI systems and integrating models into backend-driven applications using FastAPI and LLM frameworks. Passionate about building intelligent, real-world AI and data-driven solutions.

EDUCATION

B. Tech in Artificial Intelligence and Data Science
Karunya Institute of Technology and Sciences, Coimbatore, India

08/2023 - 05/2027

SKILLS

- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, PyTorch, Supervised & Unsupervised Learning, Model Evaluation & Optimization
- **Natural Language Processing & LLMs:** Generative AI, Retrieval-Augmented Generation (RAG), LLM Integration
- **Programming Languages:** Python, SQL, Java
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Power BI, Tableau
- **Backend & Deployment:** FastAPI, Flask, REST APIs,
- **Databases & Vector Stores:** MongoDB, FAISS
- **Tools:** Git, GitHub, Jupyter Notebook, VS code

PROJECTS

EduRAG – Personalized AI Learning Assistant with Retrieval-Augmented Generation

- Engineered a GPU-accelerated RAG system enabling multi-document contextual question answering with unified FAISS vector indexing.
- Designed adaptive MCQ generation with automatic difficulty adjustment and performance tracking using persistent Q&A and assessment history.
- Built a modular, scalable backend integrating document processing, vector search, and LLM inference to deliver a personalized AI-powered tutoring experience.

ModelMatch-AI – AI Model Recommendation Engine

- Built a decision-support system evaluating 30+ LLMs across benchmarks, pricing, and deployment constraints for data-driven model selection.
- Developed FastAPI backend APIs to generate use-case-specific recommendations with cost estimation logic.
- Implemented an AI-powered explainability layer to provide structured trade-off reasoning for model choices.

AI Resume Screening System – ML & DL Based Candidate Evaluation

- Built an automated resume screening system using Machine Learning and Deep Learning techniques for candidate-job matching.
- Applied NLP preprocessing and feature extraction to improve classification accuracy and ranking quality.
- Designed evaluation pipeline to compare model performance and optimize prediction reliability.

AIRA – Multi-Agent AI Decision System (Hackathon Project)

- Designed and implemented the backend architecture for a multi-agent AI framework enabling structured, collaborative decision-making workflows.
- Engineered agent communication pipelines and domain-specific analysis modules (finance, risk, compliance) to generate explainable, consolidated recommendations.
- Built scalable APIs and data-processing logic to support real-time reasoning, traceability, and executive-level dashboard integration.

CERTIFICATIONS

- Python, Java Fundamentals, MongoDB, SQL
- Power BI, Tableau, Data Analysis using Python
- Git and GitHub, Prompt Engineering, Generative AI, Soft Skills