

## PROFESSIONAL SUMMARY

**Passionate Full Stack AI Developer** with a strong foundation in building scalable web applications and **integrating AI workflows** into production systems. Proven expertise in **Backend Engineering** (FastAPI/Flask) and **Frontend Development** (ReactJS) to deliver end-to-end intelligent solutions. Experienced in developing **RAG pipelines**, deploying ML models via **RESTful APIs** and containerizing applications using **Docker**. Seeking to leverage skills in **Microservices**, **Data Pipelines** and **Cloud Deployment** to contribute to real-world AI projects.

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## EDUCATION

**B.Tech - Artificial Intelligence and Data Science** | CGPA: **8.12/10**

Arjun College of Technology, Coimbatore | *Expected Graduation: July 2027*

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## TECHNICAL SKILLS

- **Languages:** Python (Advanced), JavaScript, SQL.
  - **AI & Machine Learning:** PyTorch, LangChain, LangGraph, Hugging Face, Fine-tuning, Large Language Models (LLMs), RAG Pipelines, Scikit-learn, CrewAI, Vector Embeddings (ChromaDB), Agent Orchestration.
  - **Backend Engineering:** FastAPI, Flask, Django, RESTful APIs, CRUD Services, JWT Authentication, Microservices Architecture, Webhooks, Swagger UI.
  - **Frontend Development:** ReactJS, Tailwind CSS, UI/UX, Streamlit, UI Responsiveness, Frontend Performance Optimization.
  - **Data & Database:** SQL (MySQL / PostgreSQL), NoSQL (MongoDB), Vector Databases, Pandas, NumPy, ETL Frameworks, EDA, Data Annotation.
  - **DevOps & Tools:** Docker, CI/CD (GitHub Actions), Cloud Deployment (Render/Exposure to AWS), Version Control (Git), VS Code, Jupyter Notebook, Kaggle, Postman.
  - **Soft Skills:** Technical Documentation, Research & Synthesis, Professional Communication, Problem Solving, Analytical Thinking, Team Collaboration, Adaptability, Continuous Learning
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## KEY PROJECTS

**Smart Academic Assistant – GenAI Conversational Interface** | Python, LangChain, FastAPI, RAG | [GitHub](#)

- **AI Model Integrator:** Engineered a Full Stack **RAG pipeline** using **LangChain** and **Hugging Face** embeddings to enable semantic search over unstructured data.
- **Backend Engineering:** Developed a real-time **RESTful API** using **FastAPI** with webhook integration to serve the AI agent, ensuring low-latency response times.
- **Data Pipeline:** Implemented document parsing automation to structure raw data, significantly improving retrieval accuracy and context window utilization.

**EasyML – SaaS AutoML Web Platform** | *Flask, ReactJS, Docker, Scikit-learn* | [GitHub](#) | [Live](#)

- **Frontend Contributor:** Built a responsive **ReactJS** interface allowing users to generate training scripts and evaluation metrics instantly.

- **DevOps & Deployment:** Containerized the application using **Docker** to ensure consistent runtime environments and streamlined **cloud deployment**.
- **ML Workflows:** Automated complex **data preprocessing** (cleaning/encoding) and algorithm benchmarking, reducing manual model selection effort by 70%.

**Heart Disease Prediction API** | *Machine Learning, Swagger UI, Model Evaluation* | [GitHub](#)

- **Model Training:** Achieved 90%+ accuracy using Random Forest and Logistic Regression with rigorous cross-validation and **hyperparameter tuning**.
  - **API Development:** Exposed the trained model via a **Flask REST API**, documented with **Swagger UI** for easy testing and integration with client-side applications.
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## INTERNSHIP EXPERIENCE

**Artificial Intelligence Intern** | GROW YOUR SKILLS (Remote) | *Jul 2025 – Oct 2025*

- **AI Development:** Built **Agentic AI systems** and **Generative AI** workflows, automating complex tasks using LLM-based applications.
- **Deployment:** Developed end-to-end AI pipelines from data preparation to **model deployment**, integrating machine learning models via **Python APIs**.
- **Pipelines:** Designed **data analysis pipelines** and applied machine learning solutions to bridge the gap between raw data and actionable insights.

**Web Development Intern** | *Gateway Software Solutions* | *Jan 2025 – Mar 2025*

- **Frontend Optimization:** Achieved a **20% reduction in page load time** through code refactoring and JavaScript optimizations to enhance UI responsiveness.
- **UI/UX Collaboration:** Collaborated with UX teams to ensure cross-browser compatibility and deliver seamless responsive web interfaces.

**Data Analyst Intern** | *EDUNET Foundation* | *Sep 2024 – Oct 2024*

- **Data Annotation:** Conducted manual and automated **data annotation** on 10,000+ records to identify anomalies and edge cases for model training
  - **Dashboarding & Analytics:** Developed interactive **Power BI reports** and applied statistical analysis to interpret complex business trends.
  - **Automation:** Utilized **SQL** and **Python** scripts to automate data parsing and transformation, streamlining the data pipeline and reducing manual entry time.
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## CERTIFICATIONS & ACHIEVEMENTS

- **Certifications:** AI Agents Bootcamp - *Udemy*, Master Data Scientist - *Udemy*, Cloud Infrastructure Foundations - *Oracle*, Deploying ML with FastAPI/Streamlit, Data Science and Analytics.
- **Hackathons:** Participant in **KPR Fiesta 2025**, **CodeWars 2023** and **KAHE 2025** Hackathons; collaborated on rapid prototyping and technical solution design under time constraints.
- **Paper Presentations:** Presented technical presentations on "*Web-Based AutoML*", "*LLM with Python for Data Analysis*" and "*AI in 2030*" (Future Trends) at technical symposiums.