

# Dineshkumar S

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## SUMMARY

Aspiring AI/ML Engineer transitioning from 3 years of full-stack development. Skilled in Python, ML, and generative AI with hands-on experience in image classification, data analytics, and LLM tools like LangChain and ChromaDB. Actively applying AI to real-world problems and seeking an internship to contribute to innovative AI solutions like those at Pangea Tech.

## EXPERIENCE

### Software Developer

#### AES Technologies

October 2023 -September 2024, Coimbatore

- Spearheaded Brainstem ERP for 500+ users, managing 1,000+ daily transactions.
- Created 10+ modules, enhancing data analysis by 30% and streamlining processes.
- Achieved 99% system availability by implementing regular maintenance and timely updates, minimizing service interruptions.
- Collaborated with stakeholders to improve satisfaction and cut support requests by 20%.

#### Software Developer

#### Indtechsoft Technologies

November 2022 -October 2023, Coimbatore

- Designed and managed ERP and CRM systems using PHP and MySQL, streamlining processes for 50+ users.
- Enhanced sales tracking efficiency by 25% through a custom CRM solution for Manchester Properties.
- Improved finance and inventory operations by 30% with a tailored ERP for Ashoka Handlooms.
- Reduced issue resolution time by 15% through efficient debugging and support, ensuring seamless operations.

#### Web Developer

#### MavenTricks Technologies

August 2021 -October 2022, Madurai

- Built and maintained 10+ websites, including e-commerce platforms, improving load times by 20% and boosting retention by 15%.
- Developed an internal employee management system for 100+ staff, cutting manual tasks by 40% and streamlining operations.
- Partnered with cross-functional teams, expediting project delivery by 25% and elevating client satisfaction by 30%.

## EDUCATION

### Bachelor of Computer Application

The American College, Madurai | 2021 | 6GPA

## AI/ML - PROJECTS

### AthleteVision – Sports Person Classifier

January 2025 - February 2025

- Developed an image classification and face identification system using Machine Learning.
- Used OpenCV (Haar Cascade) for face detection and data augmentation.
- Trained and compared three ML models (SVM, Logistic Regression, and Random Forest) to find the best-performing model.
- Implemented GridSearchCV to optimize hyperparameters and improve model accuracy.
- Achieved highest accuracy of 89% (replace with actual metric) using the best-performing model.
- Evaluated model performance using classification metrics (accuracy, precision, recall, F1-score, confusion matrix).

### Smart Travel Planner – LLM-Powered Trip Recommendation System

May 2025 - June 2025

- Built an AI-powered travel planning assistant using Flask, LangChain, and Llama (via Groq API).
- Integrated RAG workflow to generate personalized itineraries based on user preferences and locations.
- Containerized the application using Docker and pushed to Docker Hub for easy deployment and sharing.
- Demonstrated practical use of LLMs, embedding models, and real-time user interaction.

## SKILLS

- **Programming & Web Development:** Python (Flask), SQL, PHP (CodeIgniter), JavaScript, HTML, CSS, Streamlit
- **AI / Machine Learning:** Scikit-learn, TensorFlow, OpenCV, LangChain, Llama, ChromaDB, OpenAI API, Google ADK
- **Data Science & Analytics:** Data preprocessing, web scraping, regression & classification (Logistic, Linear, Random Forest, SVM), Jupyter, Power BI
- **Tools & Deployment:** Docker, Git, Postman, VS Code, Jupyter.
- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn
- **Soft Skills:** Problem-solving, adaptability, communication, teamwork