

VIVIN JAYANTH A M

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SUMMARY

AI & ML engineering student skilled in Python, cloud platforms (AWS, GCP), and building real-world machine learning solutions. Passionate about driving innovation through scalable, data-driven systems aligned with business impact and industry relevance.

EDUCATION

BE - Artificial Intelligence & Machine Learning	85%	2026*
JIT		
Visvesvaraya Technological University		

PROFESSIONAL EXPERIENCE

Freelance AI Contributor – Outlier.ai	Nov '24 – Mar '25
<ul style="list-style-type: none">• Boosted AI model performance by 20% through evaluation, fine-tuning, and optimization of machine learning outputs using RLHF techniques.• Streamlined data training processes by curating structured datasets, which supported scalable and efficient AI model development.	

TECHNICAL SKILLS

- **Programming languages:** Python, C, JAVA, C++, R
- **AI&ML Tools:** Scikit-learn, K-Means Clustering, YOLOv8, OpenCV
- **Cloud Computing:** AWS, Google Cloud Platform (GCP)
- **Data Visualization:** Tableau and Power BI
- **Database:** SQL, MySQL, MongoDB
- **Collaboration and Project Management:** Remote teamwork, Agile methodologies, cross-functional collaboration

ACADEMIC PROJECTS

AI-Driven Traffic Congestion Management: Dynamic Signal Coordination, Adaptive Transmission and Real-Time Adjustments **March '25***

- **Developed an AI-driven traffic optimization system** with **multi-agent coordination** and real-time signal adjustments, significantly reducing congestion.
- **Implemented an automated Emergency Vehicle Priority system** using **YOLOv8-based CCTV vehicle detection** and smart pedestrian timing for rapid signal preemption and enhanced safety.

Frugal Foodie: A Cost-Based Restaurant Clustering and Location-Based Recommendation System **Mar '25 – Apr '25**

- **Developed a K-Means Clustering model** to categorize restaurants by price and features, achieving a **Silhouette Score of 0.6** for highly accurate groupings.
- **Integrated Google Maps API** to provide dynamic, location-based cost-effective restaurant recommendations; project findings published in **JETIR** (UGC-approved Journal) – [link](#)

CERTIFICATIONS

- AWS Academy Machine Learning Foundations – AWS Academy Graduate
- AWS Academy Cloud Foundations – AWS Academy Graduate
- Google Cloud Computing Foundations Certificate – Google Cloud Skills Boost
- Strategy Formulation and Data Visualization – IIT Madras
- Career Essentials in Generative AI – Microsoft and LinkedIn

EXTRACURRICULAR ACTIVITIES

- **Won 2nd place in NSS Space Settlement Contest**, International competition for space habitat design.
- **Treasurer, Aakruthi Design Club**, Managing funds and events for my college design club.