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 **84%** **2026***
JIT
Visvesvaraya Technological University

Sri Chaitanya PU College **73%** **2022**

Siddaganga Public School **80%** **2020**

PROFESSIONAL EXPERIENCE

Freelance AI Contributor – Outlier.ai **Nov '24 – Mar '25**

- **Elevated** AI model accuracy by 20% through comprehensive evaluation and refinement of AI-generated responses.
- **Developed** advanced reasoning models in diverse domains including economics, medicine, law, and psychology, enhancing human-aligned AI behaviour through RLHF workflows.
- **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
- **Cloud Computing:** AWS, Google Cloud
- **Collaboration and Problem-Solving:** Remote teamwork, Agile methodologies
- **Data Visualization:** Tableau and Power BI
- **Database:** SQL, MySQL, MongoDB

ACADEMIC PROJECTS

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

- Developed an AI-driven system for **dynamic traffic flow optimization** and seamless multi-agent coordination, significantly reducing congestion.
- Designed and implemented an automated **Emergency Vehicle Priority (EVP)** system, utilizing real-time CCTV-based vehicle detection to ensure immediate signal preemption for emergency vehicles and introducing a smart pedestrian crossing timer.

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 the **Google Maps API** to provide dynamic, location-based restaurant recommendations, enabling cost-effective decision-making for users.
- Project findings published in **JETIR** (UGC-approved Journal) – link

AI for Pandemic Prediction **Sept '24 – Dec '24**

- Built a **linear regression model** to predict pandemic potential using global COVID-19 data across 150+ countries, incorporating an impact metric from 4 key health indicators.
- Developed a **Streamlit dashboard** for real-time prediction and visualization of pandemic risk from uploaded datasets.

CERTIFICATIONS

- AWS Academy Machine Learning Foundations – AWS Academy Graduate
- AWS Academy Cloud Foundations – AWS Academy Graduate
- Google Cloud Computing Foundations Certificate
- Strategy Formulation and Data Visualization – IIT Madras
- Introduction to Generative AI – Google Cloud Skills Boost
- Career Essentials in Generative AI – Microsoft and LinkedIn
- Data Visualization: Empowering Business with Effective Insights – Tata and Forage

PUBLICATIONS AND PRESENTATIONS

- **Journal Publication:** Frugal Foodie: A Cost-Based Restaurant Clustering and Location-Based Recommendation System; **Journal of Emerging Technologies and Innovative Research (JETIR)**, Vol. 12, Issue 5, May 2025.
- **Conference Presentation:** Presented at the **11th National Conference on Advancements in Information Technology (NCAIT)**, JSSATE, Bengaluru, May 2025.

EXTRACURRICULAR ACTIVITIES

- **Layout and Color Designer, JITIMES -** College Magazine, responsible for designing the layout and color schemes to enhance the visual appeal and readability of the publication.
- **Won 2nd place in the NSS Space Settlement Contest**, a prestigious international competition that challenges students to design and develop concepts for space habitats.