

# VSSV Aditya Ram

## Work Experience

### Systems Engineer – Data Science (AI/ML), Tata Consultancy Services (TCS), Hyderabad

Feb 2026 – Present

- Developing AI/ML solutions for real-world business problems in the Data Science domain.
- Performed data preprocessing, feature engineering, and model building on structured datasets.
- Designed a relational healthcare inventory system, modeling entities such as medicines, batches, patients, and prescriptions to simulate real-world workflows.
- Built a Computer Vision-based PPE Compliance Detection System using 45,000+ images; trained models including YOLOv8, YOLOv11, YOLOv26, and EfficientNet for real-time detection of safety compliance from live video feeds.
- Implemented advanced system features such as FEFO (First Expiry First Out) logic, stock tracking, low-stock and near-expiry alerts, and role-based access control to improve operational efficiency.
- Collaborated across teams to solve enterprise-level problems and support data-driven decision-making.

### Trainee Intern, Tech Mahindra, Hyderabad

May 2024 – Aug 2024

- Developed an IoT Digital Twin framework for real-time sensor data processing using edge-cloud architecture.
- Built ML-based gesture recognition system (Namaskar detection) using OpenCV and MediaPipe.
- Improved system responsiveness and real-time detection accuracy.
- Integrated BLE-based Android application for seamless sensor communication.

### Data Analyst Lead Intern, Ozibook, Remote

Aug 2023 – Oct 2023

- Led a team of 35 interns, achieving a 20% increase in social media engagement.
- Designed interactive dashboards using Power BI for client reporting and decision-making.
- Automated data extraction using Selenium, significantly reducing manual effort.

## Projects

- **Multi-Factor Authentication** (Jan 2025):
  - Designed a secure authentication system combining chaotic sequence-based key generation and biometric verification.
  - Generated highly random secret keys using chaotic algorithms, improving unpredictability in authentication.
  - Implemented dynamic fingerprint selection logic (1 out of 10 stored samples) using generated indices.
  - Enhanced system security by integrating multi-layer authentication mechanisms for sensitive transactions.

## Achievements

- **Achievement: Runner-Up – TCS Internal Hackathon**  
Built a Retail Sentiment Analysis & Product Intelligence System using Streamlit, Altair, OpenAI API, LangChain, and RAG architecture. Delivered insights on customer sentiment trends, product performance gaps, and actionable business recommendations.
- **Achievement: LIREL Champion – TCS**  
Recognized for excellence and performance among peers within the organization.

## Skills

- **Languages:** Python, SQL
- **Libraries and Framework:** Pandas, Scikit-learn, OpenCV, MediaPipe, Power BI, Matplotlib, Seaborn, RAG Model Implementation, Streamlit, Tiktoken, Langchain
- **Tools:** Android Studio, Google Colab, Sheets, Excel

## Links

- **LinkedIn:** <https://www.linkedin.com/in/vssv-aditya-ram-16721a14b/>
- **GitHub:** <https://github.com/v-adityaram>
- **HackerRank:** [https://www.hackerrank.com/profile/Var\\_Aditya](https://www.hackerrank.com/profile/Var_Aditya)

## Education

Degree/Board	Year	College	CGPA/%
B.Tech Computer Science Engineering	2021-25	GITAM University, Visakhapatnam	8.11
CBSE [PCM] (Class XII)	2019-21	G.H. Rasoni, Nagpur	73.6%
CBSE (Class X)	2018-19	Delhi Public School, Nagpur	85.2%