

SOMAPURAM UDAY

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Summary

Python Developer and **AI/ML enthusiast** with hands-on experience building **scalable Python pipelines**, **modular ML systems**, and **production-ready AI solutions**. Delivered **end-to-end Python projects** covering **data preprocessing**, **model development**, and **feature-rich pipelines**. Skilled in designing **efficient, reusable, maintainable software modules** for **SaaS** and **AI-driven products**. Proven ability to **learn fast**, **tackle real-world problems**, and deliver **high-impact solutions**.

Education

G. Pulla Reddy Engineering College — B.Tech in Computer Science & Technology — 2022 – 2026 — CGPA: 8.43/10

Competitive Coding: CodeChef (Max 1630), Codeforces (Max 1174), LeetCode (Max 1571)

Leadership: CSI Student Coordinator — Organized 5+ workshops, mentored 10+ juniors, led 3 forums with 100+ participants

Experience

AI + Azure Intern — Edunet Foundation (Microsoft + AICTE) — May–Jun 2025 — Remote — Certificate

- Built modular **Python pipelines** for an **Anime Recommendation System** 15K+ entries, **TF-IDF**, **KMeans clustering**
- Developed reusable modules for **data preprocessing**, **similarity computation**, and clustering pipelines
- Optimized pipeline performance by 20%, enabling **scalable features** and **maintainable codebase**
- Applied **AI/ML best practices** to ensure modular, efficient, production-ready Python systems

AI & Deep Learning Intern — GENZ Educatewing — May–Jun 2025 — Remote — Certificate

- Designed scalable **ML modules**, including a **1D CNN sentiment classifier** for 50K IMDB reviews achieving 88% accuracy
- Implemented **YOLOv8 object detection pipelines** for real-time image processing using Python + OpenCV
- Refactored inference pipelines, improving processing speed by 30% and ensuring **modularity** for future enhancements
- Developed maintainable, reusable **Python modules** suitable for **SaaS/AI production environments**

Projects

Anime Recommendation System — Python, scikit-learn — May 2025 — GitHub

- Built **recommendation engine** with modular **preprocessing**, **clustering**, and **similarity computation**.
- Automated **top-5 recommendation generation** for 15K+ anime entries.
- Built **reusable Python modules** enabling easy maintenance and dataset scalability.

YOLOv8 Object Detection Pipeline — Python, TensorFlow/Keras, OpenCV — Jun 2025 — GitHub

- Implemented **modular detection pipeline** from scratch, processing 10K+ images in real-time.
- Maintained **scalable codebase** to efficiently add new object categories.
- Optimized **inference speed**, increasing real-time processing by 30%.

Sentiment Analysis CNN — Python, TensorFlow/Keras — May–Jun 2025 — GitHub

- Designed scalable **ML modules**, including a **1D CNN sentiment classifier** for 50K IMDB reviews achieving 88% accuracy.
- Implemented **modular pipelines** for data preprocessing, model training, and evaluation.
- Enhanced **maintainability** and **scalability** for future dataset expansion.

Technical Skills

- **Programming & Scripting:** Python (OOP, Pandas, NumPy, Scikit-learn), SQL
- **Machine Learning & AI:** Supervised & Unsupervised Learning, NLP, CNN, Clustering, Time-Series Forecasting
- **Computer Vision:** YOLOv8, OpenCV, TensorFlow/Keras
- **Backend & Automation:** Python scripting, Modular Pipelines, REST API basics, ETL Automation
- **Data Analysis & Visualization:** Matplotlib, Seaborn, Power BI, Excel
- **Tools & Platforms:** Git/GitHub, Jupyter Notebook, Azure, MySQL

Certifications

- **Machine Learning for All - University of London** — Aug 2025 — Certificate
- **Google AI/ML Virtual Internship - EduSkills Foundation** — Jan–Mar 2025 — Certificate
- **Smart Coder Certification - Smart Interviews** — Jul 2025 — Certificate
- **Python Programming Foundations - edX** — 2024 — Certificate