

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