

LAVETI HARI KIRAN

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OBJECTIVE

Computer Science student with a strong foundation in machine learning, data structures and algorithms (DSA), and GenAI tools. Skilled in Python and experienced in building scalable backend systems, ML pipelines, and GenAI workflows using LangChain, Flowise, and Flask.

SKILLS

Programming Languages: Python, SQL

ML & GenAI Tools: Supervised Unsupervised Learning, Classification, Regression, Dimensionality Reduction, Clustering (K-Means, DBSCAN), Cross-Validation, Scikit-learn, NLP, LangChain, Flowise, Prompt Engineering.

CS Fundamentals: Data Structures, Algorithms, OOP, GitHub.

Libraries & Tools: Pandas, NumPy, Flask, MySQL, Excel, Postman, REST APIs, Keras, OpenCV

Soft Skills: Communication, Teamwork, Problem Solving, Quick Learner, Adaptability

EDUCATION

B.Tech in Computer Science and Engineering

2026

Indian Institute of Information Technology (IIIT), Kalyani

CGPA: 7

Intermediate (XII) Tirumala Junior College, AP State Board

GPA: 9.8

SSC (X) Sasi Educational Institutes, AP SSC Board

GPA: 9.5

EXPERIENCE

Independent ML Analyst – Yash Aircon Project

2024

Built machine learning models (regression, clustering) to analyze AC installation/service trends.

Improved service response time by 15% using predictive analytics.

Presented actionable insights to decision-makers for optimization.

Medical Inventory System – Full-Stack Developer

2024–2025

Developed a real-time inventory web app using Flask, MySQL, and responsive HTML/CSS.

Automated alert system and data visualization with Plotly.

Reduced manual stock errors by 21% and enhanced inventory tracking.

TECHNICAL PROJECTS

GenAI Workflow Automation (Flowise + LangChain + Ollama)

2025

Built a folder-structured AI project using Flowise and LangChain for automating HR-like tasks.

Integrated OpenAI API and custom prompts to build chatbots and workflow tools with local LLMs.

Tech Stack: Flowise, LangChain, Ollama, OpenAI API, Python

JEE Mains Exam Data Analysis & Prediction

2025

Created a structured dataset covering 24+ years of JEE Mains with fields like topic, mixed-topic probabilities.

Built an ML pipeline using Linear Regression and Random Forest, achieving 77% accuracy in topic trend prediction.

Improved baseline performance by 15% through feature engineering and model tuning .

Tech Stack: Python, Pandas, Scikit-learn, Matplotlib

Library Management System

2023

Designed a role-based system using MySQL for login, book issuance, and overdue tracking.

Automated daily operations and reduced manual errors for college library workflows.

CERTIFICATIONS

Machine Learning – Programiz (June 2025)

Python Programming – Programiz (May 2024)

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

Ad Content Creator – Wrote short-form ad copies and captions, improving communication skills.

Aspiring Author Currently writing a dark fiction anthology exploring psychological duality and moral complexity.

Volleyball Player Represented college in tournaments, demonstrating teamwork and competitive spirit.