

POTLAPALLI HARSHITA

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PROFILE

Dedicated Computer Science Engineering student specializing in Artificial Intelligence, seeking opportunities as an AI and Python Developer to build intelligent, data-driven solutions. Proficient in Python, My SQL, and core AI/ML concepts, with strong problem-solving and algorithmic thinking skills. A quick learner and collaborative team player, continuously enhancing expertise through hands-on projects, coding practice, and teamwork.

EDUCATION

B. Tech in Computer Science (AI) , Ravindra College of Engineering for Women (CGPA - 7.8)	2022–2026
Intermediate , Narayana Junior College (CGPA – 8.6)	2020–2022
SSC , Montessori English Medium High School (CGPA - 10)	2020

SKILLS

Programming Languages:	Python
Databases:	MySQL
Core Skills:	OOPs, Operating Systems
Tools & Technologies:	VS Code, Github, Jupyter Notebook, FastAPI
Foundational Knowledge:	Artificial Intelligence & Machine Learning Concepts
Soft Skills:	Problem Solving, Time management, Team Collaboration, Communication.

PROFESSIONAL EXPERIENCE

AIML intern | FULENTGRID - Natural language in to My SQL query - [🔗](#) | [certificate](#)

- Built an end-to-end AI-powered Natural Language to SQL system, enabling users to query relational databases using plain English with 92%+ accuracy.
- Designed and implemented 20+ normalized tables (College & Bank DBs) with 100+ sample records, automating schema extraction and reducing query handling effort by 40%.
- Integrated Groq LLM with FastAPI backend, generating reliable SQL queries and actionable insights while reducing query failures by 30%.
- Developed a Streamlit interface with voice/text input, interactive charts, and one-click exports (Excel, CSV, PDF), cutting manual analysis time by 60%.

AIML intern | Infosys Springboard 6.0 - Customer Review Insight AI - [🔗](#) | [certificate](#)

- Developed an AI-powered Aspect-Based Sentiment Analysis system using Flask, NLP (SpaCy, NLTK), and Transformer models (DistilBERT, RoBERTa) to extract and analyze feature-level sentiments from customer reviews with 90%+ accuracy.
- Engineered robust text preprocessing, aspect extraction, and sentiment aggregation pipelines, automating large-scale review analysis and reducing manual effort by 70%.
- Built an interactive Flask web interface with HTML, CSS, and visual dashboards, integrated with FastAPI, MYSQL, Docker and JWT authentication for a secure for scalable, cloud ready deployment.

PROJECTS

Object Measurement System — Python, OpenCV - [🔗](#)

- Built a real-time YOLOv5-based object detection system using PyTorch and OpenCV with live webcam inference.
- Implemented efficient frame processing, bounding box rendering, and confidence based labeling for accurate detections.
- Developed a complete end-to-end computer vision pipeline from image capture to model prediction and on-screen visualization.

Large-Scale Data Scraper — Python, Requests, Pandas, yfinance - [🔗](#)

- Designed and deployed an automated data scraping pipeline to extract and process 54,000+ web pages efficiently using parallelized requests.
- Implemented robust error handling, data validation, and retry mechanisms to ensure high data accuracy and integrity.
- Integrated financial APIs (yfinance) for real-time data enrichment and developed automated analytics-ready datasets using Pandas.

ACHIEVEMENTS

- Smart Interviews: Bronze Certified Smart Coder (Top 64% Global Rank, 2025)
- NVIDIA Fundamentals of Deep Learning
- IBM Machine Learning with Python
- Secured 3rd Place in IEEE Odyssey 2023 Battle of Code (out of 100+ participants)