

SATHVIK KONDA

Aspiring Data Science Student

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HackerRank: sathvik8317 LeetCode: sathvik8317

PROFILE

Passionate Computer Science undergraduate with practical experience developing data-driven and AI-powered applications. Proficient in Python, SQL, machine learning, and data visualization, with specialized exposure to Generative AI tools including LLMs and CrewAI framework. Eager to apply strong technical and analytical skills to solve real-world problems and build impactful solutions.

EDUCATION

- **VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad** Nov 2022 – Present
B.Tech – Computer Science and Engineering (Data Science); CGPA: 8.74
- **Shine Junior College, Hyderabad** Apr 2022
Class 12: 97.8%
- **Shine High School, Hyderabad** Mar 2020
Class 10: GPA 10.0

SKILLS

- **Languages and Frameworks:** Python, SQL, R, C++, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn.
- **Tools:** Power BI, MySQL Workbench, Tableau, Google Colab, VS Code, Excel
- **Technologies:** Machine Learning, Deep Learning, Natural Language Processing, Data Visualization.
- **Soft Skills:** Teamwork, Problem Solving, Time Management, Strategic Thinking

ACHIEVEMENTS

- **HackerRank:** 4* in Problem Solving; 5* in SQL (Basic, Intermediate & Advanced)
- Presented research paper "*A Modular Time-Aware SMOTE and Autoencoder-XGBoost Framework for Interpretable Credit Card Fraud Detection*" at **ICACECS Conference 2025**.

PROJECTS

- **GenAI-Powered Data Analytics Simulation (Tata Group, Forage) – July 2025:** Completed a GenAI-powered data analytics job simulation, performing exploratory data analysis (EDA) to evaluate data quality and uncover risk indicators for predictive modeling; developed and validated a no-code AI framework to predict customer delinquency risk; and designed an automated, ethically grounded collections strategy compliant with industry regulations.
- **ChatPDF: AI-Powered Document Q&A System**
Developed an interactive application using LangChain and Streamlit to process and query PDF documents efficiently. Integrated ChromaDB for vector storage and retrieval with FastEmbeddings. Designed an LLM-based pipeline with ChatOllama to provide intelligent responses. Optimized document ingestion and retrieval for seamless user interaction.
- **X-ray Image Classification using Deep Learning**
Developed a TensorFlow/Keras pipeline to classify **~5,000** chest X-ray scans (Normal vs. Pneumonia), achieving **74.7%** accuracy with a custom CNN and **85.9%** with a fine-tuned VGG16; implemented preprocessing (grayscale conversion, **100×100** resizing, normalization) and visualized performance metrics to demonstrate diagnostic potential.
- **Pizza Sales Analysis Dashboard**
Designed an end-to-end sales analytics project using SQL for data extraction and Power BI for interactive dashboards. Analyzed key KPIs (Revenue \$817.86K, 49,574 pizzas sold, 21,350 orders) and uncovered trends across categories, sizes, and time.

CERTIFICATIONS AND PARTICIPATION

- NPTEL Certification: Data Science For Engineers
- Coursera: Machine Learning by Andrew Ng
- Udemy: Microsoft Certified Data Analyst Associate (Power BI)
- Participated in a **24-hour Hackathon** at TechnoVista 2k24 – Medicinal Plant Identification using CNNs

INTERESTS

Exploring emerging trends in technologies; Machine Learning and AI; Playing Chess; Gaming; Photography