

T. Sairam

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🔗 LeetCode | 🏆 HackerRank

Career Objective

Aspiring web developer and data scientist with expertise in Python, Java, SQL, and frameworks like Flask and React.js. Passionate about leveraging machine learning, data analysis, and software development skills to contribute to innovative projects and solve real-world challenges.

Education

Centurion University of Technology and Management, Parlakhemundi

Sep 2022 - 2026

Bachelor of Technology in Computer Science and Engineering

Current CGPA: 9.31/10

- **Specialized Coursework:** Machine Learning for Predictive Analytics, Data Analytics Using Tableau, Deep Learning for Image Analytics

12th (CHSE, Odisha): 83.16%

2020 - 2022

10th (BSE, Odisha): 63.5%

2018 - 2020

Project Work

Entertainment and Social Media

Sep 2024 - Present

Data Scientist and Web Developer

- Constructed a full-stack video-sharing platform that utilized React.js, Node.js, Express.js, and Python Flask to deliver personalized content recommendations; facilitated smooth playback for over **100 videos from 4 different user accounts** with optimized user-centric features.
- Implemented robust user authentication via MongoDB and optimized video management—uploads, metadata, and engagement—through SQL and MongoDB databases.
- Integrated **machine learning** and **image processing** algorithms to refine content suggestions based on user interactions and image recognition. Created **SQL queries** to enhance content feeds.
- Technologies Utilized: Machine Learning, Deep Learning, MongoDB, Express.js, React.js, Node.js, SQL, Python Flask, CSS. Click for demo: [Google Drive Link](#)

Social Interactions Dashboard: Tracking Comments and Likes

Sep 2024 - Nov 2024

Data Analyst

- Crafted an interactive **Tableau dashboard** for real-time analysis of user engagement, focusing on 31 rows of likes data from 4 accounts and 29 rows of comments data, to assess video performance and audience sentiment.
- Built two dashboards: one for visualizing likes and user interactions, and the other presenting a catalog of comments, ensuring easy navigation for comprehensive data exploration.
- Integrated **interactive visualizations** such as bubble charts, heatmaps, and line graphs, enabling deep dives into social engagement patterns over time across videos. [Live](#)

Weather Prediction using Machine Learning

Feb 2024 - Apr 2024

Data Scientist and Web Developer

- Built an accurate **machine learning model** for predicting weather patterns based on historical data.
- Developed and deployed a Flask-based backend with RESTful API to process user input and deliver real-time weather forecasts based on the model's predictions.
- Designed a React frontend that interfaces with the OpenWeatherMap API to fetch current weather conditions and send queries to the Flask backend for forecast data. [Live](#)

Skills

Programming Languages: C, Java, **Python**, **SQL**, **Data Structures and Algorithms**

Data Science Expertise: Machine Learning, **Natural Language Processing (NLP)**, **Deep Learning**

Data Visualization Tools: Tableau

Technical Tools: Git, GitHub, Jupyter Notebooks, VS Code, Postman, React.js, Express.js, Node.js

Awards and Certificates

- Certificates in Python (Basic), Java (Basic), SQL (Basic, Intermediate) from HackerRank.
- LeetCode's 50 Days Badge (2024) and HackerRank's SQL Gold Badge.
- JEE Mains 2022: 75.76 percentile, All India Rank (CRL): 225113, OBC-NCL: 71591