

T. Sairam

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Skills

Programming Languages: C, Java, **Python**, **Python Flask**, **SQL**, HTML, CSS, JavaScript, **Data Structures and Algorithms**

Data Science Expertise: Predictive Modeling, Machine Learning, Regression Analysis, Classification, **Natural Language Processing (NLP)**, **Data Wrangling**, **Data Preprocessing**, **Feature Engineering**, **Deep Learning**, Time Series Analysis

Data Visualization Tools: Tableau, Power BI, **Big Data Analysis**, Matplotlib, Seaborn

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

Project Work

Entertainment and Social Media

Sep 2024 - Present

Data Scientist and Full-Stack 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 Full Stack 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](#)

Education

Centurion University of Technology and Management, Parlakhemundi

Sep 2022 - Present

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
- Core Coursework:** Machine Learning with Python, Data Analysis and Visualization in Python, Database Management, Operating Systems, Android Development, Data Warehousing and Mining, Discrete Mathematics, Java, C Programming, Project Management, Data Structures and Algorithms, Design Thinking, IT Infrastructure, Industrial IoT

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