SATYAM KUMAR || 21f2000243 || **Portrait -** 🔗Link
Indian Institute of Technology Madras

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EDUCATION		
Program	**Institution**	**Year**
BS in Data Science and application	Indian Institute of Technology Madras	2025
Bachelor's in Computer Application	Anugrah Narayan College	2023

SKILLS

- **Programming Languages:** Python, JavaScript, Java, Bash
- **Frameworks:** Flask, Django, VueJs, NodeJs, Pytorch
- **Databases:** PostgreSQL, Sqlite
- **Libraries:** NumPy, Pandas, Scikit-Learn
- **Tools:** Git, Docker, Postman, Azure

PROJECTS

Recipe for Rating 🔗Link	• Developed predictive models for **multiclass classification** to forecast recipe ratings, utilizing machine learning algorithms such as **Logistic Regression, KNN, SVM, Decision Tree, Random Forest, and MLP.** • Conducted **exploratory data analysis** and visualized relationships between entities using **seaborn** and **matplotlib**, and applied data preprocessing techniques like imputation, standardization, and feature selection. • Employed **TF-IDF** for text preprocessing, optimized model performance through hyperparameter tuning, and evaluated models using accuracy scores and cross-validation.
Capstone Project Course Project 🔗Link	• Focused on **inventory optimization** for a small general store through exploratory data analysis and descriptive statistics to identify missing values and relationships between entities. • Conducted primary data collection, cleaning, and analysis using **pandas** and **Excel**. • Created a **business report** with recommendations based on detailed analysis..
TicketShow Course Project Link 🔗 Github	• Developed a **Full-stack web application** similar to BookmyShow using **Flask** for the backend and **Vue.js** for the frontend, allowing hosts to manage shows and theaters and users to book tickets with features like **location-detection, search, filters, real-time seat availability, user ratings, and comments.** • Ensured a **responsive** and user-friendly booking interface, utilized **Flask-JWT-Extended** for secure authentication, and created an admin dashboard for show and theater management with performance tracking through KPIs, data visualization, and data import functionality. • Employed **SQLite** for the database, **Redis** for memory caching and performance improvement, and **Celery** for job scheduling and automated report generation.
WebSightAI Github	• Gathered and cleaned **10,000**-row dataset from HuggingFace WebSight, structured it into a CSV format for analysis. • Developed embeddings using **ChromaDB** with **Google Gemini** functions for enhanced **Retrieval Argumentation Generation (RAG)**. • Integrated RAG with a Flask app, enabling dynamic HTML, CSS, and JavaScript code generation for web prompts. • **Fine-tuned Gemma-2b** model using **Keras, KerasNLP, and LoRA** for optimized performance within resource limits.

CERTIFICATIONS

❖ **Microsoft Certified: Azure Data Scientist Associate (DP-100)**, Microsoft, June 23, 2024

COURSES

Machine Learning/Deep Learning	Python Data Structures & Algorithm	Modern application Development 1 & 2
Business Analytics	Linux (System Commands)	DBMS

POSITION OF RESPONSIBILITIES

Creative Head *Saavan'22, IIT MADRAS*	• Designed and created **logos, posters, and trailers** for the online photography event, showcasing artistic skills and originality. • Coordinated and supervised **a team of evaluators**, who assessed and ranked about **60 submissions** from participants, ensuring fairness and quality standards.

EXTRA-CURRICULAR

Project Mentor *MAD-1 course, IIT MADRAS* (Sept '23 - Dec'23)	• Mentored over **200+ students** from diverse backgrounds and skill levels, facilitating their successful completion of the Modern Application 1 course project. • Provided hands-on mentorship, ensuring effective comprehension and application of Flask, Sqlalchemy and HTML in web development projects.
POV Film making event	• Won the **first prize** in the **POINT of VIEW** event, a creative video making competition, where I compiled 10-20 clips into a 3-minute movie with original audio and voice-over. Demonstrated my editing skills, storytelling ability, and artistic vision.