

PRASANTHI SINGH

Indian Institute of Technology Madras
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LinkedIn



EDUCATION			
Program	Institution	%/CGPA	Year
B. S. ** (Data Science and Applications)	Indian Institute of Technology Madras, Chennai	8.44	2024
Bachelors in Sciences (Food Science and Technology)	Sri Sathya Sai Institute of Higher Learning (Anantapur Campus)	7.4	2021
Class XII (CBSE)	Sri Sathya Sai Vidhya Vihar, Indore	80%	2017
Class X (CBSE)	Sri Sathya Sai Vidhya Vihar, Indore	8.8	2015

** Ongoing Degree

TECHNICAL SKILLS			
<ul style="list-style-type: none">Exploratory Data AnalysisMachine LearningDeep Learning	<ul style="list-style-type: none">Scikit-learn (Sklearn)NetworkXFlaskDash	<ul style="list-style-type: none">Database Management SystemsVue.jsPower BI	<ul style="list-style-type: none">JavaPythonLinux

PROFESSIONAL EXPERIENCES	
➤ Research Intern Indian Institute of Technology Madras	(Jun '23 – Present)
<ul style="list-style-type: none">Social Network Analysis Project<ul style="list-style-type: none">Conducted research on Social Network Analysis techniques, leveraging NetworkXApplied advanced techniques to analyse discourse data, revealing intricate patterns within communication networks.Pattern Analysis and Data Analysis Project:<ul style="list-style-type: none">Currently engaged in Pattern Analysis and Data Analysis methodologies.Specifically, analysing sequences related to the shuffling of questions during exam.Aiming to uncover meaningful patterns and insights that contribute to the optimization of question sequencing strategies in educational contexts.	
➤ Teaching Assistant Indian Institute of Technology Madras	(Jan '23 – May '23)
<ul style="list-style-type: none">Facilitated live sessions and conducted doubt-clearing sessions for the Database Management System course at IITM as part of the BS Data Science and Application Program.Mentored a cohort of students throughout the term, providing guidance and support in understanding course materials.I curated additional questions to elevate the learning experience for students. Additionally, I designed and implemented a new database, adhering to various constraints, and authored relevant queries for efficient data retrieval and manipulation.	

PROJECTS	
➤ Kanban Application	<ul style="list-style-type: none">Developed dynamic Task Reminder App with Flask, Flask_Login, Flask_SQLAlchemy, and HTML CSS.Enabled seamless user interactions for creating and updating their tasks.Empowered user to see their progress summary in the application.
➤ Blog Lite Application	<ul style="list-style-type: none">Engineered a versatile Blogging App with Flask, Flask_Security_Too, Flask_SQLAlchemy, and Vue.js.Implemented user-centric features, enabling seamless blog creation, updates, and user interactions.Developed a system for sending daily/monthly reminders and engagement reports via email.Incorporated CSV export functionality, streamlining storage and retrieval of blog data on local systems.
➤ Sentiment Analysis	<ul style="list-style-type: none">Executed exploratory data analysis (EDA) to glean insights from the sentiment dataset.Conducted hyperparameter tuning for model optimization.Implemented a robust pipeline spanning data preprocessing, model building, and evaluation.Employed diverse models (e.g., Logistic Regression, Decision Tree, Random Forest) for sentiment analysis.Assessed model performance using F1 micro score, ensuring a comprehensive evaluation of sentiment prediction accuracy.
➤ Inventory Analysis and Supplier Management	<ul style="list-style-type: none">Implemented data-driven strategies, utilizing charts and functions like VLOOKUP and COUNTA to identify overstocked and understocked items.Conducted comprehensive evaluations to identify and collaborate with reliable suppliers.Gave a insights for tracking and visualizing average monthly sales within a specified timeline.

POSITIONS OF RESPONSIBILITY	
➤ Head of Event Indian Institute of Technology Madras	<ul style="list-style-type: none">Led as the Head of the Art Event, demonstrating strong organizational and leadership skills.Orchestrated and curated an engaging art event, overseeing its planning, execution, and success.
➤ Group Leader Indian Institute of Technology Madras	<ul style="list-style-type: none">Led and coordinated group activities, fostering teamwork and achieving collective goals.Demonstrated responsibility, initiative, and the ability to guide and motivate team members toward success