

SAUMYA LADDHA



[Portfolio Website](#)



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[Linkedin profile](#)



[Github Profile](#)

Education Background

Rajiv Gandhi Institute of Petroleum Technology | 2021-2025

- Bachelor of Technology in Computer Science and Engineering
- Institute of National Importance
- GPA: 8.07

St. Stephens Higher Secondary School | 2019-2020

- M.P Board of Secondary Education
- Percentage: 87%

Shri Guru Tegh Bahadur Academy | 2005-2018

- CBSE Percentage: 94%

Technical Skills

Languages:

- C/C++, JavaScript, Python, PHP, TypeScript

Tools and Software:

- React.js, Node.js, MySQL, MongoDB
- NLTK, TensorFlow, PyTorch, sci-kit-learn
- Jupyter Notebook, pandas, Tableau, OpenCV
- Cloud Services: AWS, Azure
- RESTful API, MATLAB
- Figma, Adobe Illustrator

Areas of Study:

- Data Structures, Algorithms, Database Management
- Full Stack Development, Object-Oriented Programming, Computer Networks
- AI/ML (Artificial Intelligence/Machine Learning)
- Computer Graphics, Data Analysis, Cloud Computing (AWS, Azure)
- Natural Language Processing (NLP)

Positions and Volunteering

- **Dedicated Volunteer:** Passionately teach underprivileged students in Amethi and nearby areas.
- **Editorial Head:** Lead RG IPT-IEEE student chapter, driving innovative editorial content.
- **Mess Committee Member:** Ensure top-notch food quality for a satisfying dining experience.
- **Film & Media Club Member:** Actively participate in creating captivating content.

About Me

Aspiring SDE intern with a solid foundation in full-stack development, proficiency in front-end and back-end technologies, and a keen interest in data Analysis and cloud technologies. Experienced in NLP applications and cloud platforms such as AWS and Azure. Eager to contribute technical expertise, coding passion, and apply skills to real-world projects during the internship, bridging the realms of software development, AI/ML, and cloud computing

Projects

RAG Chatbots with LangChain | DEC 2023 | [GITHUB LINK](#)

- **Problem Statement:** Develop an AI chatbot capable of learning from the external world using **Retrieval Augmented Generation (RAG)** by leveraging **LangChain, OpenAI, and Pinecone**.
- **Technologies:** LangChain, OpenAI, Pinecone, Python
- **Impact:** Successfully built a functioning chatbot and RAG pipeline, allowing the system to hold a conversation and provide informative responses based on a knowledge base.

NLP Based End-to-End Text Summarization | OCT 2023 | [GITHUB LINK](#)

- **Mentor: Dr Gargi Srivastava ([Link to Mentor's Profile](#))**
- **Problem Statement:** Develop a quick summarization tool to combat information overload and save time by extracting meaningful insights from extensive text.
- **Technologies: Hugging Face's Dailymail/CNN, Transformer, Pegasus**
- **Impact:** Enhances language understanding for effective summarization, providing valuable insights and saving users time with concise summaries.

Portfolio Website | AUG 2023 | [LIVE](#) | [GITHUB LINK](#)

- **Problem Statement:** Create a dynamic portfolio that combines security and seamless communication.
- **Technologies: Next.js, Tailwind CSS, Resend API**
- **Impact:** Enhanced web presence with a secure, dynamic portfolio, optimised user experiences, and Vercel deployment.

E-commerce Shipping Prediction | JULY 2023 | [GITHUB LINK](#)

- **Problem Statement:** Improve product delivery on time and operational efficiency within the logistics framework, addressing delivery delays and operational inefficiencies.
- **Technologies: Random Forest, Gradient Boosting algorithms**
- **Impact:** The predictive model enhances supply chain operations, resulting in on-time deliveries, improved operational efficiency, and enhanced customer satisfaction, addressing logistics challenges.

E-Commerce Website using MERN Stack | JUNE 2023 | [GITHUB LINK](#)

- **Problem Statement:** Improve user engagement on e-commerce platforms.
- **Technologies: MERN stack (MongoDB, Express.js, React, Node.js)**
- **Impact:** Ensured transaction security, improved user satisfaction with intuitive interfaces, and efficient product catalogue management for a seamless e-commerce experience.

AI-Based Virtual Assistant | MAY 2023 | [GITHUB LINK](#)

- **Mentor: Dr. Susham Biswas ([Link to Mentor's Profile](#))**
- **Problem Statement:** Assist visually impaired individuals in accessing information and navigating their surroundings.
- **Technologies:** Advanced AI features like **face recognition** and **text-to-speech** on a mobile-responsive website.
- **Impact:** Enhanced the lives of visually impaired individuals by providing social interaction tools, mobility, and digital content access through mobile-responsive design.

Restaurant-Based Management System | DEC 2022 | [GITHUB LINK](#)

- **Mentor: Dr. Gargi Srivastava ([Link to Mentor's Profile](#))**
- **Problem Statement:** Provide a user-friendly online ordering experience for a diverse menu.
- **Technologies: XAMPP server, PHP, HTML, CSS, MySQL**
- **Impact:** Simplified the ordering process, allowing users to easily select dishes and complete orders with just a few clicks