



Prince Kumar

Roll No.: 23109079

B.TECH.

Mechanical Engineering

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GitHub Profile

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OBJECTIVE

As I near the completion of my second year in Mechanical Engineering, I am seeking a dynamic internship opportunity to apply my growing expertise in programming, data analytics, and full-stack development. With proficiency in languages like C++, Python, and JavaScript, and hands-on experience using tools such as React, Node.js, MongoDB, and machine learning frameworks, I aim to solve real-world challenges through innovative technical solutions. I bring a strong foundation in critical thinking and problem-solving, complemented by collaborative teamwork and effective communication. Eager to contribute meaningfully, I am committed to expanding my practical skills in a forward-thinking engineering or tech-driven environment.

EDUCATION

• National Institute of Technology, Jalandhar

B.TECH ME'27

2023-2027

CGPA: 7.37

PROJECTS

•Live Chat App

2024

Built a real-time chat application enabling seamless communication between users.

- Tools & technologies used: React.js, Express.js, Node.js, Socket.io, Tailwind CSS, DaisyUI
- Implemented bi-directional real-time messaging with Socket.io and developed a responsive frontend with Tailwind and DaisyUI, backed by a scalable Express.js server.

•RAG-based Medical Chatbot

2024

Developed a Retrieval-Augmented Generation chatbot for answering medical queries.

- Tools & technologies used: Pinecone, Google Generative AI, LangChain, HuggingFace Embeddings
- Integrated Pinecone for vector database search, used LangChain and HuggingFace to generate medically accurate responses, and employed Google Generative AI to power the conversational interface.

TECHNICAL SKILLS AND INTERESTS

Programming Languages: C/C++, Python, JavaScript

Frameworks & Developer Tools: VS Code, Jupyter Notebook, CodeBlocks, Google Colab, ReactJs, NextJs, NodeJs, Express

Cloud/Databases: MySQL Server, MongoDB, Pinecone

Soft Skills: Effective communicator, Collaborative, Skilled presenter, Self-directed learner

Areas of Interest: Data Analytics, Machine Learning, Deep Learning, Front-end Development, Back-end Development

ACHIEVEMENTS

•Hackflash – NIT Jalandhar 2025

3-hour rapid development challenge where we ranked 1st out of 15 teams.

- Designed and deployed a fully functional prototype under strict time constraints.
- Demonstrated creativity, teamwork, and effective problem-solving under pressure.

•Hackathon – NIT Jalandhar 2025

Selected for a 36-hour national-level hackathon at NIT Jalandhar.

- Collaborated with teams from diverse institutions to build an end-to-end solution for a real-world problem.
- Utilized modern tools and frameworks, focusing on agile development and team-based execution.
- Gained practical experience in project presentation, time management, and cross-functional collaboration.