Saumya Singh

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Education

Pranveer Singh Institute Of Technology **Dec 2022 – Jul 2026**
*Bachelor of Technology in Artificial Intelligence and Data Science -**CGPA-7.5*** *Kanpur, Uttar Pradesh*

Projects

AI-Generated Wellness Recommendation Board
Next.js , React , TypeScript, Tailwind CSS, REST APIs, OpenAI API **Oct 2025 – Nov 2025**

* Engineered a scalable, modular **React + TypeScript** architecture using reusable components, clean code patterns, and optimized structure to efficiently generate **AI-based wellness recommendations**, ensuring maintainability, performance, and easy future feature expansion.
* Implemented robust, **state-driven workflows** to intelligently process user metrics and generate automated, context-aware wellness recommendations, ensuring accurate insights, smoother interactions, and a highly personalized user experience
* Optimized overall performance and user experience by implementing efficient **API integration**, handling **asynchronous data flows** with proper loading/error states, and applying modern front-end best practices such as component-level optimization, state management patterns, and responsive UI design.

Rock Vs Mine Prediction
Python, Pandas, NumPy, scikit-learn, Kaggle **Mar 2025**

* Developed and evaluated a **supervised machine learning classifier** to differentiate sonar signals (**rock vs mine**), achieving a consistent **75–80% accuracy** through feature selection, model tuning, and cross-validation.
* Enhanced the **data preprocessing pipeline** by implementing data cleaning, normalization, and feature scaling using **Pandas** and **NumPy**, enabling smoother model training and improved prediction reliability.
* Performed comprehensive **exploratory data analysis (EDA)** to uncover key signal patterns, validated results with **structured train–test splits**, and evaluated multiple ML algorithms to ensure robust and trustworthy model performance.

Real-Time Collaborative Code Editor
React, Node.js, Express.js, Socket.io **Nov 2024 - Dec 2024**

* Developed a **real-time code editor** that allows multiple users to collaborate simultaneously on the same codebase, improving **team collaboration**, communication, and overall productivity.
* Integrated the app with APIs and managed client-side navigation using **Axios** and **React Router**, ensuring smooth **data flow** and maintainable, scalable code structure.
* Demonstrated strong **problem-solving**, quick **rapid prototyping**, and debugging skills while following structured software development practices and coding standards.

Technical Skills

Programming Languages: C++,Python, Java(Basics).
Backend: Node.js, Express.js.
Frontend: React.js, JavaScript, HTML, CSS.
AI/ML: Supervised ML, Unsupervised ML, NLP basics.
Developer Tools: Git, Visual Studio Code, Colab
Other Skills: Object-Oriented Programming (OOP), Algorithmic thinking

Achievements & Certifications

- Earned **AWS Cloud Practitioner Certification** — demonstrated knowledge of **cloud computing fundamentals**, **scalability concepts**, and **system efficiency optimization**.
- Cleared **TCS CodeVita Round 1 (Season 12)** — showcased **algorithmic thinking** and applied **data structures and algorithms** to solve structured programming challenges.
- **Deloitte Technology Virtual Internship** — gained hands-on experience in **system design, automation, and workflow optimization**, applying structured SDLC practices and analytical problem-solving.

Leadership / Extracurricular

Google Developer Student Club, PSIT — *Social Media Lead* **Oct 2024 – May 2025**
Pranveer Singh Institute of Technology

- Led a **5-member team** to plan and execute **10+ technical initiatives**, improving **collaboration** and ensuring tasks were completed efficiently and in compliance with workflow standards.
- Worked closely with cross-functional colleagues to enhance processes, **networking** across teams, and improve overall workflow efficiency and **user experience**.