

SHRAVAN JINDAL

+917696591026 shravanjindal@gmail.com LinkedIn Github

EDUCATION

| Degree | Institute/Board | Grades | Year |
|------------------------|---------------------------------------|---------------------|-----------|
| Bachelor of Technology | Indian Institute of Technology, Ropar | 7.00 (Till 5th sem) | 2022-2026 |
| Senior Secondary | Central Board of Secondary Education | 97.2% | 2022 |
| Secondary | Central Board of Secondary Education | 92.8% | 2020 |

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, JavaScript, Typescript, Java, Dart.
- Development:** Flutter, NextJs, ReactJS, ExpressJS, MongoDB, postgres, git, github, linux, LangChain, Hugging Face.
- ML:** PyTorch, Scikit Learn, Tensorflow, LLMs, NLP, OpenCV, MNE, numpy, pandas, matplotlib, seaborn.

I have a solid grasp of web development using Node.js and a strong understanding of fundamental software concepts. My internships reflect my growth in the field of machine learning, where I've gained practical experience and applied knowledge. Recently, I've also been actively exploring DevOps. I've developed a good understanding of key concepts such as Docker (which I've explored in depth), CI/CD pipelines, Kubernetes, basic AWS services, software testing, metrics, scalability. As a fast and enthusiastic learner, I am constantly expanding my skill set and diving deeper into new technologies.

WHAT I AM CURRENTLY WORKING ON?

I am currently delving deep into software development, exploring both high-level architectural design and low-level software design principles. To strengthen my understanding, I am actively working with Java. Alongside this, I am also engaged in research. For my B.Tech project under Dr. Mudasir Ganie, I am working on Random Vector Functional Link (RVFL) based architectures for time series forecasting. Additionally, I am collaborating with Dr. Shweta Jain on a research paper in theoretical computer science, focusing on algorithms for fair scheduling of resources on interval graphs. Through these efforts, I aim to grow both as a software developer with a strong grasp of system architecture and as a researcher exploring diverse domains within computer science.

EXPERIENCE

- XYROMATICS Automation Solution Pvt. ltd.** July 2024 - September 2024
Machine Learning Lead On-site || Github
 - Contributing to a startup focused on predictive maintenance for machines, specializing in machine learning.
 - Working extensively with raw time series data from accelerometers and analyzing vibrations in time and frequency domain.
 - Developing classification algorithms to predict different types of faults and their severity stages for early warning.
 - I also worked with AWS lambda functions, dynamoDB, and event based triggers.
- IKSMHA | IIT Mandi** May 2024 - July 2024
Research Intern On-site || Github || LOR
 - Expanded my knowledge of Python libraries for EEG data processing like MNE, gaining valuable insights.
 - I enhanced my expertise in time-frequency analysis. Using ITPC, ISPC to analysis phase connectivity among electrodes.
 - Using different tools like Topological Data Analysis to understand intrinsic features of dataset like shape and connectivity.
 - Gained hands-on experience working with EEG signals from the human brain and performed various types of analyses to extract meaningful insights.
 - Diving deep into the underlying concepts helped me understand how to interpret signals and uncover hidden patterns within the data.

PROJECTS

- LearnEra** 2025
NextJS | MongoDB | Hugging Face Website || Github
 - Enable users from different to achieve personalized skill growth through AI-driven task generation and evaluations.
 - Increased learning efficiency by 40% through an adaptive system that evaluates progress and customizes tasks.
 - Automated skill assessments, reducing manual effort by 60% and enhancing user engagement with AI-driven insights.
 - I am passionate about launching this product as a startup, recognizing the growing opportunities in AI-driven learning.
 - With this technology, personalized learning paths can be created based on an individual's skills and level of understanding.
 - To support this project, I developed an extensive dashboard that clearly visualizes a user's progress across various skill areas.
- WanderLust** 2024
NodeJS | EJS | ExpressJS | MongoDB Website || Github
 - Built a location-based peer-to-peer marketplace in MVC Architecture, integrating frontend and backend seamlessly
 - Created a responsive, intuitive UI for seamless navigation across devices, using EJS & CSS, ensuring modern user experience.
 - Integrated secure authentication, session management, and real-time updates for dynamic interaction.
 - I made this project understand web development in depth. Understanding how to structure the codebase and also write good code.
- FestEz** 2025
Flutter | Firebase App || Github

- Revolutionized fest experience, enabling real-time event tracking, instant updates, and hassle-free registrations.
- Enhanced user engagement with live participation insights, helping attendees discover and join top events effortlessly.
- Potential to deliver 10,000+ sponsor impressions per fest, maximizing brand visibility through strategic in-app placements.
- This was a group project, which taught me valuable lessons in collaboration—how ideas evolve through discussion, the importance of constructive debate, and the focus on optimizing solutions.

ACHIEVEMENTS

KEY COURSES TAKEN

POSITIONS OF RESPONSIBILITY