

Gulshan

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Education

M.Tech in Signal Processing and Machine Learning <i>Dr. B.R. Ambedkar National Institute of Technology Jalandhar (NIT Jalandhar)</i>	2024 - 2026
B.Tech in Electronics and Communication Engineering <i>Dr. B.R. Ambedkar National Institute of Technology Jalandhar (NIT Jalandhar)</i>	2020 - 2024

Experience

Junior Web Developer <i>Pinpencil LLP, Remote (Mohali)</i>	June - July 2023
<ul style="list-style-type: none">Developed and deployed customizable portfolio templates using HTML, CSS, JavaScript, and Bootstrap, enabling users to generate personal websites effortlessly.Contributed to the end-to-end design workflow—from wireframing to responsive UI implementation—on platforms like GitHub, Vercel, and Netlify.Gained practical exposure to open-source development, enhancing coding proficiency and understanding of real-world web design challenges like color schemes and typography balance.	

Projects

Brainstorming <i>Tech Stack: Java, Spring Boot, Apache Kafka, MongoDB, MySQL, Redis</i>	[Repository Link]
<ul style="list-style-type: none">Built a scalable competitive programming platform inspired by LeetCode and Codeforces for hosting contests, evaluating skills, and assigning performance-based ratings using a microservices architecture.Integrated Apache Kafka for load distribution and deployed multiple code-testing servers, reducing code evaluation wait times by 80%.Used Redis as a caching layer, enhancing system responsiveness by 40%. Designed modules for live contests, practice problems, and real-time feedback to improve user engagement and learning.Developed secure admin tools with Spring Security, enabling role-based access for contest management, problem uploads, and an automated Elo Rating system for transparent performance tracking.	
Gemini Talker <i>Tech Stack: Python, Gemini API, Google Translate API, Dialogflow, Firebase</i>	[Repository Link]
<ul style="list-style-type: none">Developed an AI-powered multilingual chatbot to assist students during JEE Mains counseling by predicting ranks and guiding college selection based on real-time JOSAA data..Trained the chatbot using machine learning models and past year trends to provide accurate and contextual college recommendations, improving decision confidence for aspirants.Integrated support for multiple Indian languages using Google Translate and NLP techniques, significantly increasing accessibility for regional students.Deployed the system using Dialogflow and Firebase, ensuring real-time interaction, session continuity, and secure data handling throughout the counseling process.	

Key Skills

Programming Languages: C/C++ , Java, Python, JavaScript (Basics)
Frameworks: React.js, Node.js, Spring-boot
Databases & Tools: MySQL, MongoDB, Redis, Git, GitHub
Core Competencies: System Design, Data structures and Algorithms, Competitive Programming
Course works: Operating System, Object Oriented Programming, Machine Learning

Achievements

- LeetCode Practice:** Solved **250+ questions**, strengthening problem solving skills.
- Best Final Year Project:** Awarded for outstanding project execution.
- Regional Languages Club:** Established and led a club with more than **300 members** promoting linguistic and cultural diversity.