Shivani Bhandari

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🌐 portfolio.shivani.com   </> leetcode.com//shivani767   📍 Mohali, Punjab, India

Education

UIET Panjab University, Chandigarh   Jun 2021 - May 2025

Bachelor of Engineering in Electronics and Communication Engineering

Experience

Semiconductor Laboratory, Mohali   Jun 2024 – Jul 2024

Software Developer Intern

- Spearheaded process automation for the SEZ01 wet etching tool, optimizing efficiency and redefining process parameters for superior outcomes.
- Designed and implemented automated solutions, streamlining process control and data analysis while collaborating with cross-functional teams to seamlessly integrate software and hardware systems.

AMTRON, Guhawati   Jan 2023 – Mar 2024

Predictive Analytics Specialist

- Developed and implemented a dynamic Project Monitoring Dashboard in collaboration with engineers, streamlining project tracking, management, and reporting for improved workflow efficiency.
- Optimized data visualization tools to enhance stakeholder engagement, enabling clearer insights, better collaboration, and more informed decision-making.

Design Innovation Center, MDaRT UIET, Panjab University, Chandigarh   Mar 2022 - Dec 2023

Website Team Lead

- Led the development of DIC Panjab University's official website (dicpu.in), enhancing user experience, accessibility, and overall site performance with a modern and responsive design.
- Worked on a dental healthcare web app, using machine learning for better predictions and user interaction.
- Collaborated with researchers and developers to create responsive and scalable web solutions for various projects.

Projects

TwinProtocol

- Engineered a dynamic suite of interactive and responsive components using React, TypeScript, Tailwind CSS, MUI, shadcn, and Zustand, optimizing performance and enhancing user engagement.
- Integrated AI, Blockchain technologies, and REST APIs to ensure secure operations and seamless user interactions.
- Designed and implemented intuitive interfaces for creating, publishing, and training AI twins, incorporating interactive chat functionalities for an enhanced user experience.

Streaming Platform (TMDB)

- Innovated a movie streaming platform using TMDB API, React, Next.js, and Tailwind CSS, ensuring fast and smooth performance.
- Integrated real-time search and detailed movie information, allowing users to quickly find and explore movies.
- Executed a responsive and user-friendly interface, providing seamless navigation and an enjoyable browsing experience across all devices.

Online Code Compiler

- Architected and deployed a full-stack Online Code Runner, seamlessly integrating C++ and Python support within a web-based editor for real-time code execution.
- Engineered a robust backend with GCC, Python interpreter, and Docker containers, ensuring isolated and secure execution environments.
- Leveraged MongoDB for efficient data storage and retrieval, optimizing performance and scalability for a seamless user experience..

Weapon Detection

- Developed a Weapon Detection System using deep learning and computer vision, capable of identifying weapons in real-time.
- Implemented efficient image processing techniques to enhance detection accuracy and reduce false positives.
- Designed a scalable and optimized model for deployment in security applications, ensuring rapid and reliable threat identification.

Voice to Text Converter

- Developed a real-time voice-to-text converter using React.js for the frontend and Flask for the backend, ensuring a seamless user experience.
- Integrated Whisper AI and DeepSpeech models for accurate speech recognition, supporting multiple languages with high precision.
- Deployed on Vercel, optimizing performance with WebSockets for low-latency transcription, achieving 95%+ accuracy, and enhancing accessibility for diverse users.

Technical Skills

- **Languages**: Python, C++, JavaScript, TypeScript, Next.js, SQL
- **Technologies**: React.js, Node.js, Express.js, Flask, MongoDB, AWS, Machine Learning
- **Developer Tools:** Git, GitHub, VS Code, Docker(basic) and CI/CD Pipeline

Certification and Achievements

- The Ultimate React Course 2023: React, Redux & More (Udemy, 2023)
- Excelled in GSSoC, demonstrating exceptional problem-solving skills and active contribution.
- Secured a top rank in the prestigious Consultathon by BITS Pilani, showcasing strategic thinking and analytical expertise.
- Led as ML Sub-Head for GDSC UIET, Chandigarh, curating impactful workshops and successfully organizing multiple hackathons to foster innovation and learning.