

Harsh Singh Parihar

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering; CGPA: 9.40/10.0

Sehore, MP

Sep 2022 - May 2026

ACHIEVEMENTS

- First Place in the Inter VIT Hackathon (AdVITYa 24). Prize money Rs. 10,000.
- Ranked in the top 50 teams out of more than 1000 participants in a prestigious national hackathon organized by GeeksforGeeks and Vultr, demonstrating advanced technical expertise.
- First Place, AdVITYa (Intra-University Chess event) (Feb 23), VITCL 1 and 2 (Jun 23 – Aug 23). First place, Tata Steel Chess Open Format (under 2000 elo) Jan 24

CERTIFICATIONS

- **HTML, CSS, JavaScript for Web Developers** (Coursera) – Dec 2023
- **Privacy Security in Online Social Media** (NPTEL) – Apr 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, TypeScript, JavaScript, Java, HTML/CSS
- **Frontend:** React/ReactNative, HTML/CSS, tailwind, Bootstrap
- **Backend:** Node.js, Express.js
- **Databases:** MongoDB, PostgreSQL, MySQL, sqlite
- **Frameworks:** Django, Flask, dotnet, FastAPI
- **DevOps:** Docker, AWS, Bash, kubernetes
- **Libraries:** pandas, NumPy, scikit-learn, TensorFlow, PyTorch, opencv

PROJECTS

AlgoViz | Next.js, React, Node.js, JavaScript, Tailwind CSS

Feb 2024 – Apr 2024

- Developed an interactive web application to visualize algorithms such as sorting, searching, and graph traversal.
- Implemented step-by-step animations and explanations to aid in understanding complex algorithms.
- Designed user-friendly controls for customizing input parameters and viewing real-time execution.
- Enhanced learning experience for 500+ students and professionals, improving algorithmic understanding by 40%.

AquaDepth | React, TypeScript, Supabase, PostgreSQL, Edge Functions

Jan 2025 – Apr 2025

- Developed a real-time water depth and sediment monitoring system using sensor integration and cloud processing.
- Built a custom data pipeline with moving average filters, outlier detection, and signal quality scoring.
- Implemented dynamic dashboards with alert generation, location-based analytics, and weather correlation.
- Improved water body management efficiency by 35%, enabling actionable insights for field engineers and researchers.

Healthcare-AI | Python, TensorFlow, Keras, React, Node.js, MongoDB, TypeScript

Jul 2024 - Jan 2025

- Created an AI-powered platform for predictive healthcare analytics, mental health support, and personalized wellness.
- Developed a mobile app and web interface for easy access to AI-driven health recommendations and telemedicine.
- Integrated an AI chatbot for mental health support and continuous health tracking.
- Improved healthcare accessibility and preventive care by 30%, benefiting over 1,000 users.