

ARYAN SINGH

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EDUCATION

VIT Bhopal University	2022 – 2026
B.Tech - Computer Science and Engineering(AIML) - CGPA: 8.41	Sehore, Madhya Pradesh
Laxmi Narayan Dubey College	2021
Class XII – 78.4%	Motihari, Bihar
Modern Public School	2019
Class X – 82.2%	Motihari, Bihar

EXPERIENCE

Rycien Tech — HTML, CSS, JavaScript, Tailwind CSS, Node.js, React.js, Next.js, SQL Web Development Intern	Jan 2025 – Apr 2025
	Remote

- Built responsive **frontend interfaces** with **Next.js, React.js, and Tailwind CSS**, improving load speed by **25%** and ensuring cross-device consistency
- Developed and integrated **10+ RESTful APIs with Node.js**, cutting response time by **15%**
- Designed and optimized **SQL schemas (10+ tables)**, reducing redundancy by **18%** and improving query performance
- Implemented secure **authentication & session management**, supporting **300+ daily logins**
- Refactored and debugged code, lowering production issues by **20%** and improving maintainability
- Documented **APIs and workflows**, reducing onboarding time by **30%**

PROJECTS

Interview-Me: AI-Powered Interview Preparation Platform | Next.js, Firebase, Tailwind CSS, shadcn/ui, Vapi AI, Google Gemini, Zod

- Built an **AI-powered platform** for job interview preparation using **Vapi voice agents** and **Google Gemini**, enabling real-time interview simulations and feedback.
- Designed a modern, responsive UI/UX with **Next.js, Tailwind CSS, and shadcn/ui**, achieving **95% mobile responsiveness** in local testing.
- Implemented features like **secure authentication, AI-generated interviews with transcripts, and a dashboard**, demonstrating scalability for real-world deployment.
- Integrated **Firebase** for authentication and data persistence, ensuring smooth handling of **test users and mock interview sessions**.
- Applied **Zod-based input validation**, reducing invalid data entries during testing by over **40%**.

React Website UI with LocalStorage Persistence | React.js, JavaScript, CSS, LocalStorage

- Developed a fully functional **React.js website UI** with reusable components, improving development efficiency by nearly **20%**.
- Integrated **localStorage** for persistent data handling, ensuring saved preferences remain across sessions in local testing.
- Designed responsive layouts with **CSS**, achieving smooth rendering across **desktop, tablet, and mobile**.
- Strengthened skills in **React hooks, props, and state management**, building a scalable and beginner-friendly project.
- Verified performance through local testing, ensuring fast rendering and improved usability for sample user flows.

Brain Tumor Classification | Python, TensorFlow/Keras, Scikit-learn, OpenCV, Gradio, Matplotlib

- Developed **CNN-based deep learning models** to classify MRI brain scans, achieving **95.7% accuracy** in tumor detection.
- Benchmarked against traditional ML approaches — **PCA + SVM** (Train: 93.5%, Test: 80.8%) and **Logistic Regression** (Train: 100%, Test: 77.3%) — confirming CNN superiority.
- Designed robust preprocessing pipelines for MRI images, ensuring consistency across varying scan qualities.
- Integrated a **Gradio interface** for real-time predictions, creating an interactive diagnostic prototype.
- Visualized outcomes with **confusion matrices & ROC curves**, improving interpretability for medical applications.

SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL, TypeScript

Web Technologies: HTML, CSS, Tailwind CSS, React.js, Node.js, Next.js, Django

Libraries/Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PyTorch

Cloud/Platforms & Tools: AWS, Firebase, Git, GitHub, VS Code, Jupyter Notebook

Soft Skills: Problem-Solving, Communication, Teamwork, Adaptability, Leadership

Other Notable Works/Achievements

- **Certification:** HTML, CSS, and JavaScript for Web Developers (Coursera)
- **Certification:** Machine Learning Specialization (Coursera)
- **Problem Solving:** Solved **250+** problems on GeeksforGeeks and LeetCode
- **Extracurricular Activity:** Vice President, Defence Warrior Squad Club, VIT Bhopal University