ARNAV RANA

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SUMMARY

Product-driven Computer Science student with hands-on experience in building scalable full-stack applications and deploying AI/ML models. Proficient in JavaScript and ReactJS, with a strong foundation in system design, REST APIs, and cloud integration. Passionate about building scalable, user-focused products in fast-paced teams.

Skills

Languages & Tools: Python, JavaScript, Git, GitHub, VS Code, Postman, Figma
Web & UI: React.js, Node.js, HTML5, CSS3, Tailwind CSS, Three.js
Databases & Platforms: MySQL, MongoDB, Firebase, Google Colab
AI/ML: CNN, Deep Learning, Data Analysis
CMS & E-commerce: WordPress, Shopify
Core Concepts: OOP, System Design, REST APIs, Multithreading

Projects

AI-based Virtual Job Interview Coach | Present
- Developed an AI-powered platform that simulates real-time job interviews using NLP and ML models.
- Implemented real-time speech-to-text, sentiment analysis, and feedback generation using Python and React.js.
- Integrated OpenAI API for dynamic question generation and personalized coaching based on user performance.

AI-Based Early Diagnosis of Diabetic Retinopathy | Apr 2025
- Built and deployed a CNN model achieving 95% classification accuracy.
- Reduced diagnosis latency by 30% through optimized preprocessing.
- Designed scalable architecture for real-time model inference and deployment.

Dryfruit-Bazaar E-commerce Platform | Oct 2024
- Implemented full-stack site with payment gateway integration
- Developed responsive UI and user flow for product listing, cart, checkout.

Academic and Extracurricular Achievements

- **Published Research Paper (IEEE INNOCOMP 2024):** "Unveiling the Digital Orchard: How Online Sales and Exportation are Transforming the Dried Fruit Industry"
- **Published Research Paper (IEEE CSDL – ICACCTech 2023):** "Guruhub: An Innovative Paradigm for Enhancing Student-Teacher Interactions and Incentivizing Educational Excellence"

Certifications

- **Developing Back-End apps with Node.js and Express** - Coursera
- **AI Applications with Python & Flask-** Coursera
- **Introduction to Microsoft Azure Cloud Services -** Coursera
- **Create a Virtual Private Cloud using AWS -** Coursera

Education

Chandigarh University, Mohali, Punjab	**2021 - 2025**

- Computer Science Engineering | CGPA: **6.08**

Viveka Foundations School, Palampur, Himachal Pradesh	**2020 - 2021**

- *CBSE (Class XII), Aggregate: 65*