# Rahul

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## SKILLS

- **Languages**:            Python, C++, JavaScript
- **ML/LLM:**            Model Training, Preprocessing, LangChain, RAG, LLMs, Vector Search
- **Frameworks/Tools**:    Express.js, Docker, React, Next.js, n8n, Docker, Git, GitHub
- **Backend & DataBase**: Node.js, Express.js, Supabase, Firebase, Flask API, MySQL
- **Deployments:**        Railway (Backend), Vercel (Frontend), CI/CD
- **Core Concept**:        Data Structures & Algorithm, OOPS, OS, CN
- **Soft Skills**:        Problem-Solver, Effective Time Management, Rapid Learning Ability, Adaptability

## INTERNSHIP

**Bitlance Tech Hub Private Limited**

AI Developer Intern | n8n, React, LLMs, LangChain, Next.js, Supabase                    Oct' 25 – Present

- Built and integrated AI agents using n8n and Supabase to automate and streamline end-to-end business workflows.
- Collaborated with product teams to enhance real-time decision systems, improving automation efficiency by 30%.
- Progressed into an AI Executive role, leading AI-driven automation initiatives and mentoring interns in AI agent development.
- Designed and deployed scalable multi-agent LLM pipelines with LangChain and Next.js, enabling autonomous task execution and reducing manual intervention by over 40%.

## PROJECTS

**Crop Guidance System** | React.js, Firebase, Flask API, Weather API, Machine Learning | GitHub        Sep' 25 – Oct'25

- Engineered a multi-model crop recommendation pipeline using CatBoost and LightGBM, achieving ~89% accuracy by leveraging soil parameters, historical yields, and dynamic weather indicators.
- Trained, tuned, and validated CatBoost models for handling categorical soil attributes and optimized LightGBM for high-speed inference, enabling fast real-time recommendations.
- Connected live Weather API and market price endpoints to produce context-aware insights—combining crop suitability, expected demand, and pricing trends.
- Implemented Firebase for user authentication, personalized dashboards, and storage of user-specific soil profiles to improve recommendation quality over time.
- Developed an intuitive React.js interface with real-time data visualizations and guided workflows for farmers.

**PrepWise-AI-Powered Interview Practice Platform** | Next.js, TypeScript, Gemini, Firebase, Vapi AI | Live        Jun' 25 – Jul'25

- Developed an AI-driven interview practice platform enabling real-time voice-based mock interviews using Vapi AI.
- Implemented dynamic performance dashboards for tracking user progress, feedback history, and skill improvement insights.
- Integrated secure Firebase authentication with a serverless backend to ensure seamless user onboarding and data access.
- Enhanced UI responsiveness and interaction by integrating modern component libraries and optimizing Next.js rendering.
- Experimented with cutting-edge LLM and speech APIs to deliver accurate feedback, voice responses, and personalized interview guidance

## CERTIFICATES

- Data Structures and Algorithms (72 hours) | Iamneo | Link                    Dec' 24
- Object Oriented Programming (72 hours)  | Iamneo | Link                    Dec' 24
- TCP/IP and Advanced Topics | Coursera | Link                            Nov' 24
- Introduction to Hardware and Operating Systems | Coursera | Link                Sep' 24

## EXTRACURRICULAR ACTIVITIES

- Participated in Smart India Hackathon (SIH), contributing to solution design and rapid prototyping.
- Ranked 11th in a web development competition by CipherSchools.

## ACHIEVEMENTS

- Solved over 300 Data Structures and Algorithms problems on LeetCode and Contest Rating of 1664 | LeetCode
- Solved 600+ coding problems across platforms (LeetCode, HackerRank, CodeStudio, etc.) |  Link

## EDUCATION

- **Lovely Professional University**                                Phagwara, Punjab
  Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.6**        Pursuing (2023-2027)