

# Avinash Pratap Singh

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## Projects

**Vocal AR:** [WebXR](#), [Bhashini API](#), [HTML](#), [CSS](#), [JavaScript](#), [Django](#)

- Created a virtual try-on experience using **WebXR** to simulate eyewear fittings, increasing average session time by 65%.
- Implemented voice-driven commands in 10+ Indian languages using **Bhashini API** to ensure usability across diverse language speakers.
- Hosted on **Vercel** with optimized asset delivery, achieving load speeds under 2 seconds and enhancing user conversion by 40%.

**RAG Doc Q&A App:** [Langchain](#), [Streamlit](#), [OpenAI](#), [ChromaDB](#)

- Engineered a Retrieval-Augmented Generation (RAG) system enabling users to upload PDFs and query context-aware answers with over 90% semantic accuracy.
- Integrated **Langchain**, **ChromaDB**, and **OpenAI API** to handle vector indexing and LLM responses with average query response time under 3 seconds.
- Deployed on **Streamlit Cloud**; tested with 50+ documents and 100+ user queries during internal evaluation.

**Blog Post:** [Django](#), [HTML](#), [CSS](#), [Bootstrap](#), [SQLite](#)

- Built a full-stack blog application with 10+ CRUD operations and mobile-friendly UI using **Django** and **Bootstrap**.
- Managed models, views, and dynamic templates to render 5+ routes and handle user interactions seamlessly.
- Deployed on **PythonAnywhere** with load times under 2s by optimizing static assets and database queries.

**CineVerse:** [React](#), [Node.js](#), [TMDb API](#), [HTML](#), [CSS](#), [JavaScript](#)

- Developed a movie catalog platform with **TMDb API** integration, allowing access to 500,000+ film records including metadata and trailers.
- Added search, genre sorting, actor info, and preview functionality to help users browse and discover films with high interaction rate.
- Optimized load speed via lazy loading and modular bundling on **Vercel**, reducing bounce rate and improving responsiveness on mobile.

## Experience

**Five Alphabet**

Jan 2025 – Present

Full Stack Developer – [React.js](#), [Django](#)

- Architected and developed **United AI**, a platform offering 6+ AI tools, used by 2,000+ users.
- Built 15+ responsive **React** components, improving load speed by 40% and user engagement.
- Enhanced platform reliability through improved frontend-backend communication using **Python Django** framework.
- Implemented **Django ORM** queries and database optimization techniques, reducing query execution time by 35% and improving overall application performance.

## Skills

Languages	C++, Python, JavaScript, SQL,
Frontend	React, Redux, HTML, JavaScript, Bootstrap, Tailwind CSS, RESTful APIs
Backend	Node.js, Express.js, Django, Authentication(JWT, OAuth)
AI & ML	RAG, LLM, LangChain, OpenAI API, ChromaDB, Machine Learning, NLP
Tools & Cloud	Git, GitHub, Docker, Postman, npm, Vercel, AWS (EC2, S3), CI/CD
Soft Skills	Leadership, Communication, Problem-Solving, Resiliency

## Achievements

- Top 10 finalist in FinXthon hackathon organized by Q2 Software. [Certificate\(FinXthon Finalist\)](#)
- Winner of internal hackathon Neuro Nest at GL Bajaj Institute among 50+ teams. [Certificate\(Winner Neuro Nest\)](#)

## Education

**GL Bajaj Institute of Technology & Management**

2025

BTech in Information Technology, CGPA: 7.4

**Silver Grove School**

10th-2018, 12th-2020

10th Percentage: 82% , 12th Percentage: 77.1%