

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.

Internship

Five Alphabet

Jan 2025 – Present

Full Stack Developer – React.js, Python

- 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
Frameworks	React, Node.js, Django, Django REST Framework
Libraries	Bootstrap, Tailwind CSS, Streamlit, NumPy, Pandas
Tools	Git, GitHub, Vercel, Docker, Postman, Django Admin, pip
Soft Skills	Leadership, Communication, Resiliency

Achievements

- Top 10 finalist in FinXthon hackathon organized by Q2 Software.
- Winner of internal hackathon at GL Bajaj Institute among 50+ teams.

Education

GL Bajaj Institute of Technology & Management

Nov 2021 – July 2025

BTech in Information Technology: CGPA: 7.2

Silver Grove School

2017 – 2020

High School – 10th: 82%, 12th: 77.1%