

Ayush Pratap Singh

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Education

Chitkara University

Bachelor Of Engineering in Computer Science (**GPA: 9.18/10.0**)

Punjab

Sep 2022 - June 2026

Army Public School

Class 12th - CBSE (**Marks(%)**: 84.2%)

Amritsar, Punjab

2022

Army Public School

Class 10th - CBSE (**Marks(%)**: 85%)

Akhnoor, Jammu & Kashmir

2020

Technical Skills

- **Programming Languages**: Java, C/C++, JavaScript, TypeScript,
- **Library & Frameworks**: Reactjs, Tailwind, Expressjs, Nextjs,
- **Course Work**: Object Oriented Programming, Data Structure and Algorithms, Database Management System, Operating System, Computer Network,
- **Database**: MySQL, MongoDB,
- **Developer Tools**: VS Code, IntelliJ IDEA, PyCharm, Git, GitHub, Postman, Vim, Linux

Projects

outReach | [GitHub](#)

[outreach-saas.vercel.app](#)

- Built an AI-powered email outreach platform that automates personalized cold email campaigns for lead generation and sales automation.
- Implemented intelligent web scraping using **Cheerio** to extract company information from domains, feeding contextual data to **Gemini AI** for highly personalized email generation.
- Developed lead management system supporting CSV/Excel file uploads and individual lead creation, with **MongoDB** for data persistence and tracking. Along with capabilities to scrape emails from the target websites.
- Integrated user authentication via **NextAuth** with Google OAuth and email/password options, with email delivery powered by **NodeMailer**.
- **Tech Stack**: Next.js, TypeScript, MongoDB, Gemini AI, Cheerio, Papa Parse, NextAuth, NodeMailer.

Flex It Out | [GitHub](#)

[flexitout1.vercel.app](#)

- Built a fitness web application to help corporate employees maintain wellness routines during busy work schedules.
- Integrated **real-time AI pose detection** using **TensorFlow.js** to track workout performance and provide instant feedback to users.
- Implemented a token-based reward system with daily challenges to boost user engagement and create an active fitness community.
- Developed company partnership features allowing organizations to provide rewards and incentives based on employee fitness achievements.
- **Tech Stack**: Next.js, Node.js, TypeScript, TensorFlow.js, Google OAuth, NodeMailer, Vercel.

YouChat | [GitHub](#)

[youchat-saas.vercel.app](#)

- Developed **YouChat**, a full-stack AI-powered platform for interactive YouTube video content analysis using **Gemini LLM**.
- Built a system to process video transcripts, extract key insights, generate summaries, and create context-aware questions for enhanced learning.
- Added user API key integration feature, enabling personalized AI interactions and custom question generation based on video content.
- **Tech Stack**: Next.js, TypeScript, Gemini API, Vercel Serverless Functions, Tailwind CSS, Yewtu Data API.

Scholastic Achievements

- Dean's List & Outstanding Student Award Chitkara University (2022-2024)
- Solved **300+** Data Structures and Algorithms (DSA) problems across platforms, including **200+** on [LeetCode](#), covering a diverse range of algorithms and data structure challenges.
- Top 10 in **HackIndia-Hackathon** hosted by C# Corner.