

AAYUSH YASH

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CAREER OBJECTIVE

Aspiring **Software Engineer** with a strong passion for technology and continuous learning, seeking **opportunities** to grow in **collaborative engineering environments**.

EDUCATION

Chandigarh University

Bachelor of Engineering in Computer Science

Aug. 2021 – Jun. 2025

Mohali, India

TECHNICAL SKILLS

Languages: Python, C++, SQL

Frameworks/Libraries: FastAPI, YOLO, PaddleOCR

Cloud & Infrastructure: Google Cloud Platform (GCP), Git/GitHub

Development Practices: API Development & Testing, SDLC

Core Concepts: Data Structures & Algorithms, OOPS, DBMS

Tools: Postman (API Testing), ChromaDB

PROJECTS

Bharat ID Validator | Python, FastAPI, YOLO, PaddleOCR

Dec. 2025

- Developed a **high-performance REST API** using FastAPI for automated Indian ID document classification and field extraction, supporting **7 document types** with a **98%+ confidence threshold**.
- Designed a **layered microservice architecture** with separate classification and extraction pipelines, enabling early rejection of low-confidence documents and reducing unnecessary processing.
- Implemented a **two-phase OCR strategy** combining fast single-line text recognition with an intelligent PaddleOCR fallback for complex multi-line fields, significantly improving reliability across varied layouts.
- Built a **singleton-based model loader** to manage multiple YOLO and OCR models efficiently, ensuring predictable startup behavior and graceful degradation on model failures.

RAG Chatbot | Python, Google Gemini, ChromaDB

Sept. 2025

- Built a **data-driven, user-facing conversational system** using **RAG architecture**.
- Minimized query latency by implementing **local vector search**, enabling real-time voice interaction via browser audio APIs.
- Designed a **modular backend architecture** enabling easy experimentation and **future model integration**, supporting continuous improvement.

HONORS & ACHIEVEMENTS

1st Position, Innovation Challenge | *Techkriti, IIT Kanpur*

2024

- Secured 1st rank developing a technical solution in a national-level innovation competition.

Top 10 Finalist, Task Whiz Challenge | *Techfest, IIT Bombay*

2023

- Achieved Top 10 rank nationwide for algorithmic problem solving and logic.

Participant, Web 3.0 Hackathon | *Tryst, IIT Delhi*

2022

- Collaborated on a decentralized application prototype in a 24-hour hackathon.

Volunteer | *Sewa Pakwada Health Camp, Chandigarh*

2023

- Coordinated logistics for a free health camp serving underprivileged communities.

CERTIFICATIONS & ASSESSMENTS

• **Problem Solving (Basic)**

HackerRank

• **SQL (Basic)**

HackerRank

• **Postman API Fundamentals Student Expert (API Testing & Automation)**

Postman

• **Google Cloud Associate Engineer (Readiness Programme)**

Google