

Pratyush Chauhan

Software Developer

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Professional Summary

Software Engineer skilled in building scalable back-end systems and LLM-powered applications. Proven track record of deploying CI/CD pipelines on GCP and developing multimodal AI services for production. Passionate about transforming complex ML research into reliable, user-centric software products.

WORK HISTORY

Founding Engineer — Engram Feb 2026 – Present

- Building a persistent context AI brain for marketing companies.

Founding Engineer — TryVinci AI Feb 2025 – FEB 2026

- Designed and deployed **CI/CD pipelines** on **Google Cloud Platform (GCP)** for **FastAPI microservices**, cutting deployment time by 60%.
- Reduced backend image size by 50%.
- Authored an end to end AD generation tool.

Research Intern — Georgia Institute of Technology Sep 2024 – Jan 2025

- Developed a **GPT-4o-powered system** for **PII detection** in desktop screenshots using Autogen and Omniparse, improving accuracy by 20%.
- Authored a research paper (under review) on **LLM-based information extraction** and **computer vision integration**.
- Automated dataset generation and annotation with Python scripts.

Software Engineering Intern — Techlane AI Nov 2023 – Aug 2024

- Created **Tawx**, a Flutter + Firebase content creation platform enabling reel generation, collaboration, and feedback tracking.
- Built 6+ production-ready modules; enhanced UX and reduced load time by 30%.
- Managed user authentication and data sync with Firestore and Riverpod state management.

Research Intern — DSCI Funded Project Mar 2023 – Sep 2023

- Engineered a **gesture-based authentication system** integrating IoT control; achieved 95% gesture accuracy.
- Filed a patent for the hand recognition algorithm and Flutter-Arduino integration architecture.

Freelance Android Developer — Scrap Paper Bazaar Jan 2023 – Mar 2023

- Designed, developed, and published a **Flutter Android app** on **Google Play Store** for a local startup.
- Implemented authentication, notifications, and real-time data sync using **Firebase and Riverpod**.

EDUCATION

B.Tech in Computer Science and Engineering | Bennett University, Greater Noida
CGPA 9.3/10

2021 - 2025

Publications

- [Evaluating Top-k RAG-based Approach for Game Review Generation](#) — IEEE IC2PCT 2024.

Patents

- Contactless Biometric Authentication System Through Hand Gestures** Indian Patent Application No. 202411020548, Bennett University. Filed: 19 March 2024 | Published: 09 August 2024 | Status: Under Examination

Projects

[LegalLLM](#) - Generated legal documents via LLaMA 2 (13B) and Retrieval-Augmented Generation (RAG) using Llama Index; containerized with Docker.

[Critic.AI](#) - Summarized game reviews using LLMs, Vector DBs, and Python FastAPI backend; dockerized for deployment.

Open Source: [DiaryVault](#): Contributed PRs [#64](#) and [#90](#) to open-source project enhancing UI and data persistence.

Certificates & Extra Curricular

Google Cloud Career Practitioner ([GCCP](#)) | Dec 2022

[Hackaccino](#) 1st Place, C.S.I Bennett University | May 2022