

# AMANPREET SINGH

Data Scientist | Machine Learning Engineer



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## SUMMARY

**AI & Data Science** enthusiast with strong experience in building **LLM-integrated** and **RAG**-based applications. Skilled in backend development, machine learning model deployment, and scalable cloud integration. Passionate about solving real-world problems using data and intelligent systems.

## EXPERIENCE

Machine Learning Intern | Lafleurtech

Mar 2025 - Present

- Developed and deployed **RAG-based** intelligent systems for government organizations including JAC Chandigarh and NDMC Delhi.
- Built a **self-service data** integration platform allowing clients to seamlessly incorporate custom datasets into RAG systems,

Flutter Developer | Celebrare

Dec 2024 - Mar 2025

- Collaborated with various teams to develop the **iOS** app for **Celebrare**, which is their main application, as well as **WowInvite**, their newest offering.
- Participated in iterative testing, bug-fixes, and UX enhancement with **design & QA** teams.

## EDUCATION

B. E. in Computer Science and Engineering

Dec 2021 - 2025

Chandigarh college of engineering and technology,

7.97 CGPA

## PROJECTS

1. CNN Based Tomato Diseases Detection ↗

Nextjs, ShadcnUI, Tensorflow, Fastapi

- TomatoGuard AI** is a comprehensive web application that uses **Convolutional Neural Networks (CNN)** to detect diseases in tomato plants.

2. Crop Recommendation System ↗

Nextjs, Fastapi, Shadcn UI, XGBoost

- Designed a ML-powered web app for intelligent **crop recommendations** using soil and climate data. Achieved **98%** model accuracy with **XGBoost**, deployed using FastAPI.

3. Meetings Summarizer ↗

Nextjs, ShadcnUI, Fastapi, Groq API

- Developed and executed a comprehensive web application that enables users to upload their **meeting videos**, which are then summarized. Additionally, the platform allows users to ask related questions.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, JavaScript

**ML/AI Tools:** Pandas, NumPy, Scikit-learn, XGBoost

**Frameworks:** React, Next Js, Express Js, Flutter

**Cloud:** AWS (Intermediate), Google Cloud (Intermediate)

**Deployment Tools:** Docker, Git, GitHub

**Databases:** MySQL, MongoDB, PostgreSQL