

# Pulkit Garg

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## Area of Expertise

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LLM Applications · Agentic AI · RAG Pipelines · LangChain · Prompt Engineering · API Integration · Data Pipelines

## Education

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**Thapar Institute of Engineering and Technology, Patiala**  
*Bachelor of Engineering in Computer Science*

Aug 2023 – May 2027  
CGPA – 8.66

## Projects

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**Sellari ai – Automated B2B Sales Platform** | *Python, Gemini, Verifalia API*

- Architected an end-to-end automated system that manages 100+ sales leads through structured workflows.
- Built 3 core modules for data validation, email verification, and content generation.
- Integrated the Gemini, Gmail, Verifalia and many APIs to automate lead outreach and reduce manual work.

**Self-Healing Data Pipeline** | *Airflow, PostgreSQL, dbt, Ollama, Docker*

- Developed an Airflow pipeline with autonomous schema drift detection and self-correction using LLaMA 3.2.
- Engineered a Try-Heal-Retry loop: the LLM diagnoses, fixes, and retries failures across 100+ logged interventions.
- Architected a medallion architecture (Bronze, Silver, Gold layers) with dbt incremental models and a Streamlit dashboard.

**YouTube Chat – AI-Powered Chat Extension** | *FastAPI, LangChain, ChromaDB*

- Engineered a Chrome extension for real-time chat over YouTube videos using a RAG pipeline with LangChain and ChromaDB.
- Implemented semantic search over transcripts with adaptive context scaling and persistent chat history.

**Voca – Vocabulary Learning Platform** | *Next.js, React, MongoDB, NextAuth.js*

- Developed a full-stack vocabulary platform with 500+ words, meanings, and pronunciations.
- Deployed a LangChain-powered AI chatbot for intelligent word discovery via LLM pipelines.

## Skills

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- **Programming Languages:** C, C++, Python, JavaScript
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS
- **Backend & APIs:** Node.js, FastAPI, REST APIs, NextAuth.js
- **Database:** MongoDB, MySQL, PostgreSQL, ChromaDB
- **AI & Automation:** LangChain, LLM Integration, Gemini API, Ollama, Gmail API, Verifalia API
- **Data Engineering:** Apache Airflow, dbt, Streamlit
- **Tools & Version Control:** Git, GitHub, Docker

## Certifications & Achievements

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**Supervised Machine Learning: Regression and Classification**

Jan 2025

DeepLearning.AI & Stanford University, Coursera

**Advanced Learning Algorithms**

Dec 2025

DeepLearning.AI & Stanford University, Coursera