



Navneet Singh

B.Tech Graduate'24

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Summary

AI Engineer with hands-on experience in agentic AI, workflow automation, and full-stack development. Built LLM-powered applications, web scraping systems, and scalable backend platforms. Strong problem solver with the ability to turn complex ideas into production-ready solutions.

Work Experience

Turing | Data Scientist

Full-Time

Remote, Palo Alto

Sep'24-Present

- Designed prompts, agent workflows, and tool-calling strategies for Penguin's agentic AI systems using SFT and RLHF to improve reasoning, response quality, and tool invocation reliability.
- Built hybrid code **RAG** for Amazon SWE-Bench GitHub issue analysis using **Python**, **Neo4j**, **Qdrant**, **BM25**, and cross-encoder reranking to map issues to relevant code.
- Implemented **LangGraph** multi-hop retrieval over calls, imports, inheritance, and dependencies for grounded engineering Q&A across large repositories.
- Managed a team of 6 members working on graph-based data representations from large-scale datasets to support learning pipelines for Google Gemini AI systems.

EEZY Labs | Data Engineer

Summer Intern

Remote, New York

June'23-July'23

- Built data scraping pipelines for venue websites and Instagram profiles, optimized using parallel processing.
- Containerized and deployed scraping pipelines on GCP using Docker, with unit tests, validation checks, and TOR routing.
- Automated data collection and analysis across 4L+ websites.

Skills & Technologies

Languages/Libraries: C, C++, Python, SQL, Javascript, Flask, Nodejs, React, MongoDB $\text{\LaTeX}$

Tools: Git, GitHub, AWS, Azure, Postman, Docker, Selenium, MongoDB, Codex, Claude Code

ML Libraries: Numpy, pandas, scikit-learn, PyTorch, LangChain, LangGraph, Hugging Face, FAISS

Projects

E4Square

Self Project

Feb'26 - May'26

- Built a full-stack chess platform with multiplayer, bot play, puzzle trainer, and Stockfish analysis.
- Developed React chess UI with Firebase Auth, real-time moves, clocks, rematches, and responsive gameplay.
- Developed backend services for real-time gameplay, matchmaking, and game state management.
- Deployed on AWS Lightsail using Docker, and GitHub Actions CI/CD, with SQLite-backed puzzle data.
- Tech Stack: **React**, **Node.js**, **Express**, **Socket.IO**, **Firebase**, **AWS**, **Git**, **Nginx**

AI Procurement Agent

Self Project

Jun'26

- Built a Python-based AI procurement agent for supplier discovery, qualification, and outreach automation.
- Designed stateful workflows for brief intake, supplier matching, email outreach, reply routing, and follow-ups.
- Integrated Gemini to extract requirements, analyze supplier replies, and support next-step decisions.
- Tech Stack: **Python**, **SQLite**, **Google Gemini API**, **Gmail API**, **Python unittest**, **Git**

Education

Indian Institute of Technology (IIT), Kanpur

2020–2024

Bachelor of Technology (B.Tech)

Extra Curriculars

- Represented IIT Kanpur at **Inter IIT Tech Meet'22** as part of an 8-member team in the Alpha Quest event.
- Secured **1st place** in **Techweek**, organized by the Science & Technology Council, IIT Kanpur, competing against 100+ teams.
- Served as **Secretary** of the Finance & Analytics Club, helping organize a three-day national-level finance event.