

# YASH KUMAR

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## Summary

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Applied AI/Full-Stack engineer building LLM features end-to-end: data refinement to model-ready signals, LangChain/FastAPI APIs, and Next.js/React frontends. Experience in SQL/NoSQL schema design, ETL with Python + SQL, vector search (Pinecone/FAISS)

## Skills and Interests

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**Languages:** Python, Java, C/C++, JavaScript, TypeScript, SQL

**AI/LLMs:** LangChain, Prompt Engineering, Hugging Face, OpenAI API, Retrieval/Embeddings, Guardrails

**Development:** React.js, Next.js, Tailwind; dashboards and real-time UX, FastAPI, REST, Auth (JWT/RBAC), Webhooks, Caching

**Data:** Schema design (PostgreSQL, MongoDB), Vector DBs (Pinecone, Chroma/FAISS), ETL with Python+SQL

**ML Ops/Eval:** Offline test sets, prompt/testing harnesses, CI on data/code

**Tools:** Git, Docker, GitHub Actions, Power BI, Postman

## Experience

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### Data Analyst Intern

Jan 2025 – Mar 2025

*Pawzz Foundation (Remote)*

- Built interactive Power BI dashboards on donor funnels; improved reporting speed by 35%.
- Designed lightweight SQL tables/views and Python transforms to turn raw donations & events into model-ready signals.
- Automated extract-clean-load jobs (Python+SQL); reduced weekly manual effort significantly.
- Ran small offline experiments for trend prediction; shared insights with ops to iterate on campaigns.

### Growth Intern

May 2023 – Jul 2023

*Fact App (Remote)*

- Instrumented event tracking and REST endpoints (JavaScript + FastAPI) to unlock funnel/retention analytics.
- Optimized backend handlers and queries; reduced API latency under peak usage.
- Built weekly growth reports (SQL + automation) and ran quick A/B style experiments, contributing to +15% retention.
- Partnered with product to close the loop between metrics and feature iterations.

## Projects

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### Career Compass — Next.js, LangChain, FastAPI

- AI career assistant with resume scoring, job matching, and learning roadmaps; Next.js frontend + FastAPI services.
- Authored LangChain chains for retrieval & scoring; defined SQL/NoSQL fields to persist user/job signals.
- Built a small evaluation harness (sample resumes/jobs) to track recommendation quality (e.g., precision@k).

### Cyber Sentinel — Next.js, FastAPI, Hugging Face, MongoDB

- Engineered AI phishing/URL detection using Hugging Face transformers; created a labeled test set to measure 90%+ accuracy.
- Implemented FastAPI with JWT/RBAC and a MongoDB schema for scalable alert/log storage; webhook endpoints for actions.
- Responsive Next.js dashboard for real-time incidents; tight loop between detections, review, and follow-up.

### Secure Sentinel Spark — React, Prompt Engineering

2025

- Prototype of a phishing workflow using prompt engineering to simulate pipeline logic end-to-end.
- Built an interactive React dashboard for classification, reviewer feedback, and iteration on prompts.
- Used small curated examples to evaluate prompt changes before demo deployments.

## Achievements

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### 1st Prize

Aug 2025

*Qubit Quest 2025, IIIT Delhi*

- Won 1st place at national hackathon (ESYA'25) for AI-powered quantum solution.

### Finalist

Sept 2025

*HackShastra 2025*

- Advanced to Round 2 among 200+ teams nationwide.

## Education

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### B.Tech in Electronics & Communication Engineering

2022 – 2026

*Guru Ghasidas Vishwavidyalaya*

CGPA: 8.0 / 10.0

## Certifications

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- Generative AI with Google Cloud (May 2025)
- Large Language Models with Google Cloud (May 2025)
- AWS Solutions Architect (Forage) (Jun 2025)