

# Nanda Kumar

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Entry-level AI/ML Engineer and Python Developer with a strong foundation in backend engineering, LLM integration, and AI-powered API development. Experienced in building production-ready microservices using FastAPI, integrating cloud AI APIs (Gemini, OpenAI, Anthropic), and designing agentic workflows with LangChain and LangGraph. Skilled in developing chatbots, document intelligence pipelines, and embedding-based retrieval systems. Currently interning at Wipro Limited with hands-on exposure to enterprise-grade deployment using Docker. Eager to contribute clean, modular code to cross-functional teams building intelligent real-world applications.

## TECHNICAL SKILLS

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**Programming Languages:** Python (OOP, Data Structures, Clean/Modular Architecture), JavaScript, SQL

**Framework & APIs:** FastAPI (Primary), RESTful APIs, Async Programming, Microservices, JWTFastAPI (Primary), Flask, RESTful APIs, Async Programming, Microservices, JWT

**AI / ML & LLMs:** LangChain, LangGraph, Pydantic-AI, RAG Pipelines, Prompt Engineering, Model Evaluation, Embedding Pipelines, OpenAI API, Gemini API, Anthropic API.

**Vector Databases:** pgvector, Pinecone (basic), Supabase Vector

**Databases:** PostgreSQL, MySQL, MongoDB, Supabase, SQLite.

**Frontend:** HTML/CSS, Reactjs (basics), Tailwind CSS.

**DevOps & Cloud:** Docker, Git/GitHub, AWS Cloud (Practitioner level), CI/CD concepts. CI/CD basics, Inference Endpoint Deployment

## INTERNSHIPS

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### PROJECT INTERN | WIPRO LIMITED

*June 2025 PRESENT*

- Designed and developed robust Python-based microservices using FastAPI, following clean, modular architecture principles aligned with production-grade AI feature integration.
- Built and maintained RESTful APIs and inference endpoints, ensuring high performance, scalability, and security for AI-powered services.
- Integrated cloud AI APIs and implemented data validation, error handling, and Pydantic models for reliable backend services.
- Collaborated in Dockerized deployment workflows — testing, optimizing, and shipping inference endpoints to staging and production environments.
- Performed code reviews, debugging, and performance optimization; collaborated cross-functionally to deliver AI-ready solutions.
- Gained enterprise exposure to API lifecycle management, microservice architecture, and team-based version control using Git.

## PROJECTS

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### Customer-Support-Agent | React | FastAPI|LangChain | LLMs | [LIVE](#)

*February 2026*

- Architected an end-to-end AI-powered chatbot system using Python and LLMs for automated query categorization, sentiment analysis, and smart human-agent escalation — directly aligned with chatbot and document AI use cases.
- Integrated cloud AI APIs (Gemini, OpenAI) with LangChain for conversational intelligence, prompt engineering, and response quality control through model evaluation techniques.
- Built a robust FastAPI backend with strict API-level rate limiting (SlowAPI), JWT auth, and microservice design patterns for production stability.
- Developed a responsive React chat interface with dynamic Markdown rendering; Dockerized the full stack for consistent inference endpoint deployment.

### AI Recruitment Agent | Python | Langgraph | Gemini LLM| [GitHub](#)

*January 2026*

- Developed an agentic AI pipeline using LangGraph state machines for multi-step resume parsing, semantic skill matching, and automated candidate scoring — demonstrating agentic framework expertise (LangGraph/CrewAI pattern).

- Integrated Gemini LLM via cloud AI API for semantic analysis, embedding-based classification, and intelligent decision-making workflows.
- Engineered prompt design and model evaluation loops to improve matching accuracy; focused on modular architecture, debugging, and validation.
- Implemented embedding pipelines for document intelligence, enabling semantic search over candidate profiles.

### **Just Backend | FastAPI | Supabase | JWT| [LIVE](#)**

*January 2026*

- Built a production-ready backend with JWT authentication, role-based access control, and secure RESTful APIs following clean code principles.
- Implemented database-level security using Supabase Row-Level Security (RLS) and PostgreSQL with pgvector-ready schema design for future vector search integration.
- Added Redis-style caching and indexing strategies to optimize inference-adjacent data retrieval, improving scalability and response times.

## **EDUCATION**

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### **HKBK COLLEGE OF ENGINEERING**

Karnataka, Bangalore

Bachelor of Engineering in Electronics and Communication Engineering

*Nov 2021 – Sept 2025*

CGPA – 9.27

## **CERTIFICATIONS**

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- AWS Cloud Certification (Cloud Practitioner level knowledge)
- Python for Beginners Certification