UDAY KANT

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PROFESSIONAL SUMMARY

AI and Full-Stack Software Engineer (B.Tech CSE, **CGPA: 9.05/10**) specializing in **Generative AI**, **Large Language Models (LLMs)**, **Retrieval-Augmented Generation (RAG)**, and **AI Agents**. Proficient in Python, JavaScript, TypeScript, React, Next.js, Node.js, LangChain, FAISS, MongoDB, PostgreSQL, Docker, Kubernetes, and RESTful API development. Delivered production-grade applications integrating vector databases, semantic search, and full-stack authentication systems for real-world use cases.

EXPERIENCE

Full Stack Developer – Intern
June 2026 – Present

GoDatabase LLP, Pune, Maharashtra (Remote)

- Built **authentication flows** (signup, login, email verification, OTP verify, password reset) for a hiring platform for database professionals using **Next.js**, **TypeScript**, and **Tailwind CSS**.
- Developed **RESTful APIs** in **Node.js/Express**, migrating **MongoDB/Mongoose** logic to **PostgreSQL** via **Sequelize ORM** while preserving existing business logic.
- Implemented **JWT** authentication and **OAuth** (Google, GitHub, LinkedIn) via **Passport.js**; fixed token-generation and callback bugs affecting session integrity.
- Designed **Sequelize models** for a 14-table relational schema (RBAC, profiles, sessions, audit logs) and resolved SQL query and JSX structural bugs across production pages.

PROJECTS

Medical RAG Chatbot
GitHub

Python · LangChain · FAISS · Gemini 2.5 Flash · Gradio · RESTful APIs · NLP

- Architected a **RAG** pipeline on MedQuAD (**16,000+** QA pairs) using **FAISS** vector search and **LangChain**, grounding **LLM** inference in verified medical literature to reduce hallucinations.
- Integrated **Gemini 2.5 Flash** via **RESTful API** with tuned prompt engineering, delivering **sub-second**, context-aware answers for clinical question answering.

CodeBlitz – AI-Powered Learning Assistant

React · TypeScript · Node.js · Gemini API · Tailwind CSS · Vite · Chrome Extension

- Engineered a **Chrome Extension** with **React/TypeScript** delivering adaptive AI mock interviews across **2,500+** LeetCode problems via **Gemini API** and context-aware prompt engineering.
- Hardened security by moving API key handling to **Node.js** background workers (zero client-side exposure); attained **100% Lighthouse** score via **Vite** optimization.

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, JavaScript, TypeScript, C++, HTML, CSS

AI & ML: Generative AI, LLMs, RAG, AI Agents, FAISS, Vector Embeddings, Semantic Search, Prompt Engineering, NLP, LangChain, LangGraph

Frameworks: React, Next.js, Node.js, Express.js, Tailwind CSS, Jetpack Compose

APIs: RESTful APIs, REST API Design, JSON, WebSockets

DevOps & Cloud: Docker, Kubernetes, CI/CD, Git, GitHub, Vercel, Netlify

Databases: MongoDB, PostgreSQL, MySQL, Sequelize ORM, Firebase, Redis, Kafka

Other: SAP S/4HANA, Android (Jetpack Compose), OOP, Agile, Microservices

KEY ACHIEVEMENTS

Top 5% Academic Rank

Ranked in the top 5% of B.Tech CSE cohort at Narula Institute of Technology; maintained **CGPA 9.05/10** consistently across all semesters.

300+ DSA Problems Solved

Solved **300+** problems on LeetCode, Codeforces, and GeeksforGeeks spanning arrays, graphs, dynamic programming, and system design; securing a **20% rank improvement** in 3 months.

100% Lighthouse Performance Score

Attained a perfect Lighthouse score on a custom reusable UI component library via Vite bundle optimization and lazy loading strategies.

GSSoC 2025 Open Source Contributor

Contributed to production open-source repositories at GirlScript Summer of Code, collaborating with **15+** developers on feature delivery, code reviews, and GitHub pull requests.

Smart India Hackathon (SIH) Participant

Competed in SIH – a national hackathon with **1M+** students – delivering a full working solution under time-constrained conditions.

EDUCATION

B.Tech – Computer Science & Engineering

Narula Institute of Technology, Kolkata

Sep 2023 – Sep 2027 · CGPA: 9.05/10

CBSE Class XII (86.8%)

BNS DAV Public School

2022 · Jharkhand, India

CERTIFICATIONS

Generative AI & LLM Training (30 hrs)

NIT CSE Dept. · Feb 2026 · ID: ARDENT/192413

SAP S/4HANA Application Development

SAP University Alliances · Aug–Dec 2025

Programming in Java – Elite (87%)

NPTEL · IIT Kharagpur · Jul–Oct 2025

MEAN Full-Stack Web Development (36 hrs)

IALSD · Aug 2025

LEADERSHIP & ACTIVITIES

Quiz Competition Lead Coordinator

Led **5** volunteers to execute an inter-department quiz with **100+** participants, managing logistics, scheduling, and question design.