

Sonal Mittal

+91 7068229535 | sonalmittal140103@gmail.com | sonalmittal.vercel.app | linkedin.com/in/mittalsonal

SUMMARY

Full Stack Software Engineer with hands-on experience building scalable web applications and integrating AI/ML-driven features. Proficient in Next.js, Node.js, Django, and MongoDB, with practical exposure to LLMs, LangChain, and Generative AI systems. Strong foundation in REST API development, machine learning fundamentals, and shipping reliable features in fast-paced environments.

EDUCATION

GLA University, Mathura, UP

B.Tech in Computer Science (AI/ML)

June 2025

Relevant Coursework: FullStack Web Development, Data Structures & Algorithms, DBMS, Computer Networks, Machine Learning

Lucknow Public School, Lucknow, UP

Physics, Chemistry, Maths (PCM), Intermediate

May 2021

EXPERIENCE

Software Engineer, Akoode Technologies

June 2025 – Present

- Led the software development lifecycle (SDLC) for multiple projects - from requirement gathering, system design to development, testing, and deployment - delivering solutions using **Next.js**, **Node.js**, **Express.js**, and **MongoDB**, improving team performance by **30%**.
- Optimized **RESTful APIs** and backend services using **Django** and **Flask**, reducing response latency by **20%** by integrating seamless AI-driven features into production systems.
- Collaborated with cross-functional teams to translate business requirements into scalable system architectures, enhancing application reliability, maintainability, and overall production performance.

Full Stack Developer, KodeVortex

Aug 2024 – June 2025

- Led end-to-end development of a learning platform using **React.js**, **Node.js**, and **Express.js**, supporting **500+** users with secure authentication and streamlined data flows.
- Integrated AI-powered functionality including **Object Detection (OpenCV, TensorFlow)** and **Voice Recognition APIs**; optimized API usage and database queries to reduce application load time by **25%**.
- Implemented scalable backend architecture and improved database indexing strategies, enhancing system performance and supporting future feature expansion.

PROJECTS

AI Second Brain

- Built an AI-powered knowledge system using **RAG** for context-aware Q&A from personal notes.
- Implemented **semantic search, note retrieval, and PDF processing**, enabling users to query documents and generate accurate answers and summaries.
- Built scalable backend APIs and integrated frontend for a seamless experience with efficient data handling and retrieval.
- Tech Stack:** Next.js, FastAPI, MongoDB

LinkedIn Post Generator using SoTA LLM (GenAI Project)

- Built an end-to-end **LLM-powered content generation workflow** using **LLaMA 3.2**, **LangChain**, and **Groq Cloud** to generate LinkedIn posts with low-latency inference.
- Designed prompt and chaining logic in **LangChain** and shipped a **Streamlit** interface for real-time generation, reducing manual drafting effort by **60%**.
- Tech Stack:** Python, LLaMA 3.2, LangChain, Streamlit, Groq Cloud

LEADERSHIP

IBM ICE Day 2024 - Event Coordinator & Anchor, GLA University

2024

Coordinated end-to-end execution of a 3-day technical event; anchored key sessions and managed CodeCrunch, poster presentations, and quiz competitions with **150+** participants from **16** universities.

TECHNICAL SKILLS

Programming: Java, Python, JavaScript

Frontend: HTML, Tailwind CSS, React.js, Next.js, TailwindCSS

Backend: Node.js, Express.js, Django, Fast API, REST APIs

Databases: MongoDB, SQL, MySQL

Tools: Git, GitHub, Postman, Jupyter, Streamlit

AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision, LLMs, LangChain, Generative AI, Agentic AI