

SUDHANSHU SHUKLA

SDE | AI/ML Engineer

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EDUCATION

Bachelor of Technology (B. Tech) in Artificial Intelligence & Machine Learning
NIET, Greater Noida | 2023 – 2027 (Expected) | CGPA -8.2 / 10

RELEVANT COURSEWORK

- Data Structures
- Operating Systems
- Artificial Intelligence
- System Design
- Software Methodology
- Database Management
- Computer Architecture
- Web Development

PROJECTS

MoodMate AI (Full-Stack AI Chatbot)

- Built an **offline, full-stack AI chatbot** using Llama3, Flask, and ReactJS for mental wellness support.
- Supports **four custom personalities**—Sarcastic, Deep, Roaster, and Personal Best friend—for tailored user vibes.
- Runs fully **locally without internet**, ideal for privacy-first mental health convos.
- Planned upgrades: **voice-based interaction, multi-user login, and MongoDB-based user sessions.**

AI-Powered Code Review System

- Developed an **AI-driven** code review system using **Llama3** to identify bugs, security flaws, and code smells.
- Integrated the system with **GitHub Actions** for automated pull request reviews and issue tracking.
- Implemented real-time feedback on code quality with suggestions for improvement based on best practices.

Serverless Data Warehouse with Real-Time ETL

- Built a serverless, distributed data warehouse using **AWS Lambda** and **Google Cloud Functions** for real-time ETL.
- Integrated Presto for high-speed querying of big data and machine learning models for real-time insights.
- Enabled secure data access with **IAM** and automated data pipelines using **Terraform**.

Real-Time Chat Application with WebSockets

- Built a real-time chat app using **WebSockets** for seamless communication.
- Developed with **React.js, Node.js** and **Redis** for message storage and session management
- Implemented user authentication and message encryption for secure chats.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript (ES6+), C
- **Data Structures & Algorithms:** 150+ LeetCode problems; strong grasp of algorithms & patterns
- **System Design:** High-Level Design, Microservices, Scalability Patterns, API Design
- **Web & Backend:** React.js, Node.js (Express), REST APIs
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, CI/CD (GitHub Actions), Redis
- **Tools and Version Control:** Git, GitHub, JIRA, VS Code

EXTRACURRICULAR

- **Chess :** 17,000+ games played | Bullet 1825 | Blitz 1795 | Puzzle Rating 1600+ | Deep pattern recognition, tactical foresight, and long-term strategic thinking.
- **Competitive Programming:** LeetCode Contest Rating: 1697 | Global Rank: Top 13% (89,855 / 694,599)