

# SIDDHARTH SHARMA

Greater Noida, Uttar Pradesh, India

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## Technical Skills

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**Languages** : C/C++, Python, MySQL, PostgreSQL, MongoDB

**Developer Tools** : VS Code, GitHub, Redis

**Technologies/Frameworks** : FastAPI, REST API, Microservices, Machine Learning, Agentic AI, LangChain, NLP, Pandas, NumPy, Matplotlib, Plotly, Pytest

**Platforms/Environments** : Linux, Backend Development, DevOps, Kubernetes, Apache Kafka, Grafana Loki, Prometheus, ELK Stack

## Experience

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**Erasmith Technologies Pvt. Ltd.** |

**Dec 2024 – Present**

*Software Developer*

*On Site – Noida, Uttar Pradesh*

- Backend engineer contributing to the development of **HyphenDesk**, an internal **ITSM (Information Technology Service Management)** platform built using a **microservices architecture**.
- Developed scalable **RESTful APIs** using **Python FastAPI**, supporting core modules such as **user management, incident management, service management, and configuration management**.
- Designed relational data models and implemented database operations using **MySQL and PostgreSQL**, ensuring efficient data handling and integrity across services.
- Built a scalable **log streaming and observability pipeline** using **Apache Kafka** for log ingestion and **Promtail + Grafana Loki** for centralized log aggregation, enabling reliable monitoring, faster debugging, and improved system visibility across microservices.
- Worked within **Linux-based production environments** and deployed containerized services using **Docker**, supporting CI/CD and automated deployments.
- Contributed across the full development lifecycle including **system design, database schema design, API development, integrations, and production deployment**.
- Developed a **Retrieval-Augmented Generation (RAG) based chatbot** using LLM APIs to answer queries from internal documents, involving document ingestion pipelines, retrieval logic, and backend service exposure.
- Handled **production troubleshooting, infrastructure debugging, and independent service deployments** in a real-user operational environment.

## Projects

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**AI-Based Sentiment Analyzer** | *Python, NLTK, TensorFlow Hub, pandas, numpy, LSTM* | [🐙 Github](#) **Nov. 2024**

- Designed and implemented an end-to-end sentiment analysis pipeline utilizing **pandas** for data preprocessing and **NLTK** for efficient text tokenization, stopword removal, and stemming.
- Converted textual data into numerical representations using **TensorFlow's Tokenizer** and contextual **word embeddings**, significantly enhancing model performance.
- Employed a pre-trained **LSTM** model from **TensorFlow Hub**, achieving high accuracy in text analysis.

**Driver Drowsiness Detection System** | *Python, OpenCV, dlib, scikitlearn* | [🐙 Github](#)

**Apr. 2024**

- Developed a Drowsiness detection system using **OpenCV** for image and video processing tasks.
- Implemented face detection and facial landmark localization using **dlib's** pre-trained models.
- Utilized **NumPy** for numerical operations and array manipulation, enhancing the efficiency of facial landmark processing.
- Evaluated the performance of the system using metrics provided by **scikit-learn**.

## Education

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**Galgotias College Of Engineering And Technology**

**Nov. 2021 – Aug. 2025**

*Bachelor of Technology in Computer Science and Engineering*

*7.90 CGPA Greater Noida, U.P*

## Relevant Coursework

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|-------------------|-------------------------|-----------------------|--------------------|
| • Data Structures | • Software Engineering  | • Database Management | • Machine Learning |
| • O.O.Ps          | • Analysis Of Algorithm | • Operating Systems   | • Data Analytics   |

## Position Of Responsibility

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**Member And Coordinator**

**Jan. 2022 – Present**

*Loop- Coding Club of GCET*

*Greater Noida, U.P*