

SIDDHI SUNIL AGARKAR

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EDUCATION

National Institute of Technology, Durgapur

Bachelor of Technology, Electronics and Communication Engineering

2021 - 2025

CGPA (8.11/10)

St. John's Senior Secondary School, Kota

Higher Secondary Examination, Central Board of Secondary Education

2021

Aggregate 91%

St. Helena's School, Pune

Secondary School Examination, Indian Certificate of Secondary Education

2019

Aggregate 93.6%

ACADEMIC PROJECTS

AI Medical Scheduler

August – September 2025

- Aimed to automate the manual scheduling of doctor appointments by creating an AI agent that executes tasks while providing a seamless user experience to patients through an interactive chat interface.
- Scheduling is streamlined by collecting patient data along with the insurance information, displaying available slots from the doctors' schedules, and enabling patients to select their suitable time. 60-minute slots are intelligently assigned to new patients and 30-minute slots to returning ones. The appointment confirmation is followed by automated emails sent to the patients.
- Engineered the agent using Python, LangChain, and LangGraph to manage workflow and state, and employed a Streamlit front-end. Leveraged OpenAI's GPT-3.5-Turbo model for intelligent handling of conversation and execution of tasks.

News Bot

June – November 2025

- Intended to create a bot to make the concept of reading news friendly and accessible for people with different knowledge levels, and help them move beyond just headlines to gain a thorough understanding and knowledge.
- Engineered an AI-powered news bot that demystified complex topics by providing clear, conversational explanations of news from local to global levels. Incorporated suggestions of up to 3 relevant follow-up questions after each response, fostering a more interactive and in-depth learning experience. Designed the system for high scalability and reliability, implementing adaptive rate limiting and robust error handling to ensure consistent, real-time performance during traffic surges and API volatility.
- Used NewsAPI to create a categorised dashboard of news headlines based on different genres and various countries. Integrated OpenRouter's Meta Llama 3.1.8B Instruct model into the chat interface, enabling users to ask questions about selected articles, and engaged them with contextual prompts to facilitate a deeper understanding.

E-learning Management

January – April 2025

- Objective was to build a platform to connect volunteer teachers with underprivileged students. This would enable teachers to upload tutorials and course materials from the comforts of their homes while creating massive impact on the lives of students.
- The E-Learning Management System was a scalable web platform designed to democratize education by providing accessible online courses. It facilitated a structured learning environment, where approved teachers could create and manage courses, students could enrol, learn, and earn certificates, and admins oversee platform activity.
- Built with Node.js and MongoDB, the project aimed to bridge the educational gap through an inclusive, community-focused approach.

Institute Placement Portal

July 2024 – April 2025

- Developed a robust, scalable cloud-based placement portal that fully digitalized the institute's placement operations, eliminating paper-based workflows and integrating the placement cell and students onto a single digital platform.
- Enhanced administrative efficiency by 3x through centralized data access, automated reporting, and real-time analytics. The system streamlined recruiter coordination, strengthened institutional reputation, and enabled data-driven insights into placement performance.
- Used FastAPI to create endpoints in the backend. Created functionalities for companies to list down their job roles and eligibility criteria.

INTERNSHIPS

XtremSoft Technologies, Mumbai

September – December 2025

- Spearheading a full-stack system to automate client-employee appointment booking, replacing manual Slack/WhatsApp processes.
- Engineering a conversational interface to qualify client needs and dynamically route them to the correct employee.
- Delivering secure dashboards for employees to manage availability and for admins to monitor all appointments in real-time. Implemented caching using Redis to reduce dependence on MongoDB database. Using Nodejs, ExpressJS, MongoDB.

Adobe, Bangalore

May – July 2024

- Designed and deployed Prometheus & built dashboards on Grafana to create an optimised monitoring system for a microservice, boosting query speed by 40%, slashing costs by 30%, extending data retention by 6x, and delivering superior visualisation with 98% accuracy.
 - Engineered histogram metrics to track p95, p98, and p99 API latencies across global data centres, enabling precise performance benchmarking.
 - Contributed to the enterprise-grade Java backend using Spring MVC and Maven, gaining hands-on exposure to scalable microservice architecture.
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TECHNICAL SKILLS

- **Languages & Frameworks** : Python, JavaScript, C++, HTML, CSS, SQL, Django, Node.js
 - **Tools** : Prometheus, Grafana, Data Structures and Algorithms, Docker, Render, Vercel
 - **Others** : Linux, Ubuntu, Git (VCS), GitHub, Visual Studio Code, IntelliJ, DBMS, OOPs, Computer Networks
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TRAINING AND CERTIFICATIONS

Earned certification in Algorithmic Toolbox from Coursera by UC San Diego (2025)

ACHIEVEMENTS

- Qualified JEE Advanced with All India Rank of 25123 (2021).
 - Secured a 98.6 percentile on the State Competitive exam MHT-CET with a 99.2 percentile in Mathematics (2021).
 - All India percentile of 97.1 in JEE Mains with rank 26984 (2021).
 - GRE Score – 313 (Quant: 161, Verbal: 152)
 - School Prefect (2019)
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EXTRA-CURRICULAR ACTIVITIES AND COMMUNITY SERVICE

- Senior Fest Coordinator at Aarohan, Annual Techno-Management fest of NIT Durgapur, the second largest fest of its kind in eastern India (2025).
 - Create content on LinkedIn about technology and career growth, amassing over 23,000 impressions and 2.5k followers (2025).
 - Maintain a 200-day streak learning German on Duolingo (2025).
 - Volunteered at Caring Hand Social Sanstha, Navi Mumbai. Drafted and submitted formal applications and letters to ministerial-level authorities, successfully securing necessary permissions for a range of organizational activities and initiatives. Developed and delivered targeted product presentations to effectively market new initiatives, directly supporting the introduction and promotion of employment opportunities (2025).
 - Intra-college badminton participant (organized by Gymkhana, National Institute of Technology Durgapur) (2024)
 - Convener at GNU/Linux Users' Group NIT Durgapur (2024 -2025).
 - Served as the Captain of the Athletics team at the Inter-NIT Athletics Meet (2024).
 - Partook in Official Open-source Club that promotes the use of Free and Open-Source Software. Mentored 150+ freshmen in Open Source Starterpack, a 3-day workshop on Git and GitHub. Led live classes on a Django-based Quiz application project for 30+ students in Tech Mentorship (2023).
 - Participant in Microsoft GitHub Copilot Hackathon (2023)
 - Participated in an Asian Parliamentary Debate competition as part of a three-member team organized by the Debating Society at National Institute of Technology, Durgapur (2023).
 - Successful contributor in Hacktoberfest 2022 with 5 pull requests merged (2022).
 - Received a special mention for a hip-hop dance performance at NIT's Got Talent (2022).
 - Completed Happiness Program for meditation by Art Of Living (2021)
 - Completed a beginner-level guitar course, acquiring fundamental skills at Rhythm Divine, Navi Mumbai (2020).
 - Secured first position in the 4x100m relay event at ASHA, at Resonance Eduventures, Kota (2020).
 - Secured a silver medal in throwball at the school level at St. Helena's School, Pune (2016).
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