

# SEHER SIDDIQUI

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## EDUCATION

### Mukesh Patel School of Technology Management and Engineering (NMIMS) - Mumbai, India

Bachelor of Technology in Artificial Intelligence | July 2024 - June 2028

**CGPA:** 91.07%

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Machine Learning, Database Management Systems, Signal and Image Processing, Intelligent Systems, Statistical Methods, Discrete Mathematics, Random Processing and Estimation Techniques.

## TECHNICAL SKILLS

**Programming:** Java, Python, C++, JavaScript, TypeScript (*5+ years combined*)

**Advanced Development:** React.js, Node.js, Next.js, Android Development, React Native

**Systems & Architecture:** Unix/Linux, System Design, Microservices, Docker

**Machine Learning:** TensorFlow, scikit-learn, Natural Language Processing, Matplotlib, Numpy

**Databases:** PostgreSQL, MongoDB, Firebase

**Tools:** Git, VS Code, Jira

## EXPERIENCE

### Machine Learning Research Intern | Netaji Subhash University of Technology

Hybrid | February 2025 - July 2025 | [ASCO 2025 Publication](#)

- **Built ML prediction systems** using Python and TensorFlow on 50GB+ clinical datasets, achieving 85% accuracy and 30% error reduction.
- **Applied NLP techniques** to extract insights from unstructured medical data for precision oncology research.
- **Collaborated with a cross-functional team** of 8 researchers and medical professionals on distributed data processing pipelines.
- **Selected from 7,500+ global submissions** for presenting ML research on large-scale medical data analysis.

### Software Development Intern | Zentech Infotech Solutions

Mumbai, India | June 2024 - July 2024 | [GitHub Repository](#) | [Project – Tomato](#)

- **Developed 3 scalable web applications** using React.js and Node.js serving 1000+ concurrent users.
- **Implemented design patterns and database optimization** reducing bugs by 25% and response time by 40%.
- **Deployed and debugged** apps in Unix/Linux environments while collaborating with a 5 – member agile team.

## TECHNICAL PROJECTS

### AI-Powered Real-Time Collaboration Platform | Hackathon Winner

- **Engineered distributed system** supporting 100+ concurrent users with sub-100ms synchronization using WebSockets and microservices
- **Integrated OpenAI API** for intelligent code suggestions in VS Code-style collaborative environment
- **Technologies:** Next.js, Node.js, OpenAI API, MongoDB

### Distributed Fake News Detection System | Top 100/5,611 Teams Nationwide in the TruthTell Hackathon at WAVES '25

- **Built NLP-powered system** analyzing 100,000+ news articles in real-time with parallel processing algorithms
- **Achieved 77% accuracy** in news authenticity classification using advanced sentiment analysis and entity recognition
- **Technologies:** Python, TensorFlow, NLTK, Flask, Docker

## COMPUTER SCIENCE EXTRACURRICULAR ACTIVITIES

### Stanford University Code in Place 5 - Section Leader Mentor | Student Teacher of the 2<sup>nd</sup> highest position

- **Selected from 2,000+ global applicants, mentored 15+ students** in Python programming fundamentals and algorithms.
- **Conducted technical workshops** on software engineering best practices and optimized curriculum delivery.

### Vidyalankar Polytechnic | President – Technical Committee | Head Girl

- **Led 25+ students** in organizing 5+ hackathons and workshops on **ML, system design, and Linux infrastructure**.
- **Participated in 5 hackathons and won 2.**
- **Spearheaded technical events** with 250+ participants, managing servers and networking systems.