

# Siddhant Harsh

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## PROFILE

Detail-oriented Computer Science undergraduate (3rd year, B.Tech) with hands-on experience in full-stack development and AI-based applications. Built impactful projects across EdTech, FinTech, and ML using modern web and backend technologies.

## EDUCATION

SRM Institute of Science and Technology, Chennai, India

2023 –

**Bachelor of Engineering** in Computer Science Engineering

- Current CGPA: 8.14
- Relevant coursework: Data Structures & Algorithms, Database Management Systems, Artificial Intelligence, Web Development

## SKILLS

- **Language and Tools:** C++, Python, JavaScript (ES6+), SQL, HTML5, CSS3, React.js, Node.js, Express.js, Flask, Firebase (Auth & Realtime DB), Keras, Pandas, NumPy, OpenCV, Tesseract OCR, Bootstrap, jQuery, Flutter, Isar, Git, GitHub, VS Code, Postman, Netlify, Vercel, Streamlit, Figma, MySQL, PostgreSQL, Spline
- **Industry Knowledge:** Full Stack Development, Machine Learning, Deep Learning, Time Series Forecasting, AI Integrations, OCR & Computer Vision, Algorithm Visualization, Role-Based Authentication, EdTech Systems
- **Core Competencies:** Problem-Solving, Teamwork, Effective Communication, Adaptability, Leadership, Creative Thinking

## CERTIFICATIONS

- **Programming in Java** – IIT Kharagpur, NPTEL
- **PostgreSQL: Become an SQL developer** – Simplilearn
- **Full Stack Developer Bootcamp - Master Frontend to Backend** – GeeksforGeeks
- **The Complete Python Bootcamp From Zero to Hero in Python** – Udemy
- **Mastering Data Structures & Algorithms using C and C++** – Udemy
- **React JS Certification Course**- GeeksforGeeks

## PROJECTS

**Neural Nexus – AI-Powered Virtual Lab (April 2025)**

- Created an interactive educational platform that simulates core AI algorithms through real-time visualizations.
- Developed using HTML, CSS, JavaScript, jQuery, Node.js, Gulp, and Netlify Functions.
- Presented at a university expo and appreciated for enhancing AI learning through dynamic visual explanations and quizzes.

**BankEase – Banking Management System (May 2025)**

- Developed a full-featured web-based banking platform simulating real-world operations for customers and admins.
- Built using Flask, MySQL, HTML/CSS/JS, Flask-Login, and Werkzeug Security.
- Enabled secure fund transfers, loan/investment management, and admin dashboards with 2FA and fraud detection features.

**Stock Price Prediction Platform (July 2025)**

- Developed a web-based platform to visualize, analyse, and forecast stock trends using deep learning and financial data. Built using Flask, Keras, Pandas, Bootstrap, and yFinance API.
- Integrated an LSTM-based model for time series prediction, dynamic charting with EMAs, and CSV export for end-user insights.

**Habit Tracker Mobile App)**

- Developed a cross-platform habit tracker with CRUD operations, calendar-based heatmap, dark/light mode toggle, and local data persistence
- Tech Stack: Flutter, Dart, ISAR Database, HeatMap Calendar, Slidable, Cupertino Widgets, Provider State Management

## ACHIEVEMENTS

- Selected among top 43 teams out of 800+ for pre-finals in Pixel Palette Hackathon – IEEE Robotics and Automation Society
- Designed and showcased Neural Nexus, an AI algorithm visualizer, at the SRM AI Expo; selected among 30 teams from the entire CSE Tech (CTECH) branch to present real-time AI simulations that enhanced peer learning.