

# SUDHANSHU KAKKAR

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Portfolio: <https://emsudhanshu.github.io/portfolio/>

## EDUCATION

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- **Master's Degree - Applied Artificial Intelligence** 2025 – 2026(Expected)  
Stevens Institute of Technology, New Jersey, United States
- **Bachelor's Degree - Computer Science Engineering - CGPA – 8.4** 2015 – 2019  
HMRITM, Guru Gobind Singh Indraprastha University, Delhi, India

## RELEVANT COURSEWORK

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Applied Machine Learning, Probability and Stochastic Processes, Deep Learning, Big Data, Pattern Recognition

## TECHNICAL PROFICIENCY

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- **Machine Learning:** Python, BERT Fine-Tuning, NLP, Text Classification, HuggingFace Transformers, TensorFlow, scikit-learn
- **Frontend:** HTML, CSS, JavaScript, Bootstrap, Material UI, React, React Native, Redux Toolkit, Micro-Frontends
- **Backend:** Node.js, Java Spring Boot, Microservices
- **Agentic AI:** CrewAI, LangChain
- **RAG Stack:** LlamaIndex orchestration, llama3 LLM, all-minilm embedding model, Vectorization
- **Database:** PostgreSQL, MongoDB
- **Build Tools:** Maven, NPM
- **Agile Methodologies:** Scrum, Sprint Planning, Retrospectives
- **Project Management:** Jira

## RELEVANT EXPERIENCE

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### STEVENS INSTITUTE OF TECHNOLOGY - Hoboken, United States

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#### Research Assistant – AI and ML

May 2025 –Present

- Extending my existing multi-class depression detection project with a custom non-pretrained ML model.
- Researching model architectures to classify depression levels from text.
- Evaluating performance to improve prediction reliability.

### ONCREF- India

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#### AI Engineer and Developer

Jun 2025 – July 2025

- Enhanced existing web application to improve UI, usability, performance, and user experience
- Collaborated on building a feature that leveraged agentic AI (Crew AI) to automate web scraping, convert unstructured data into structured formats, and enrich it through LLM calls for generating actionable insights.

### FIDELITY INFORMATION SERVICES INDIA PRIVATE LTD (FIS) - Bengaluru, India

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#### Full Stack Developer - Senior Software Development Engineer

Jun 2024 – Jan 2025

- Developed a standalone payment gateway application using React JS processing **400 transactions** daily.
- Developed a standalone application 15G/H submission and download using React JS and Java Spring Boot Microservices.
- Automated the build generation and obfuscation process using Node.js, saving **2 working hours** daily.
- Drove architectural enhancements like code structuring, optimization, and obfuscation that achieved an excellent AppSec security score of **94%**.
- Accelerated development workflows by creating boilerplate code generation scripts that saved developers an estimated **15 minutes** per module.
- Took ownership of product development, lead a team of **5** developers.
- Mentored and guided the team in coding best practices, maintainability, and task delegation while monitoring progress
- Enforced code quality and consistency by conducting weekly code reviews and practicing pair programming, reducing the deployment defect rate by **20%**.

## FIDELITY INFORMATION SERVICES INDIA PRIVATE LTD (FIS) - Bengaluru, India

### Full Stack Developer – Software Development Engineer II

Aug 2023 – May 2024

- Worked on the development of backend Microservices using Java Spring Boot framework and PostgreSQL database, contributing to a system running **15+ services**.
- Drove a **50% improvement** in front-end development speed by recommending and implementing Micro-Frontends and React Toolkit, allowing parallel, independent deployment of UI features.
- End-to-end delivered and maintained **6+ critical net banking modules** like Profile, Accounts, Payee Management, Alerts Management, Fund Transfers etc. by developing required UI and APIs.

### Front End Developer – Software Development Engineer II

Nov 2021 – July 2023

- Developed complex Internet Banking UI using React, Redux, and Material UI, achieving a **50% reduction** in page load time compared to traditional Vanilla JS implementations.
- Designed and implemented **50+ reusable** React components, leading to **100% faster** module assembly and enforcing design consistency across the application.
- Collaborated with UX/UI designers, product managers, and back-end developers to deliver high-quality software.
- Utilized Git and GitHub for version control and collaboration with team members.
- Embraced Agile methodologies like Scrum to ensure high-quality software delivery.

## TATA CONSULTANCY SERVICES LIMITED – Indore, India

### Front End Developer - System Engineer

Aug 2019 – Nov 2021

- Utilized React Native, Redux, and Material UI to develop and maintain a logistics mobile application for multiple platforms.
- Worked closely with the product team to plan, design, and implement new features and functionalities.
- Performed testing, debugging, and optimization to ensure the mobile app's optimal performance.
- Deployed and maintained the app on various platforms.
- Resolved over **200 defects** and functionality issues reported by the QA team, directly improving the logistics app's stability and user experience.
- Conducted weekly demonstrations to showcase the app's progress and gather feedback from stakeholders.

## ACADEMIC PROJECTS

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| • <b>AI Resume Chatbot Twin using RAG Stack</b><br>AI chatbot that utilizes the Llama 3 model and resume data to chat with recruiters and answer job specific questions on the candidate's behalf | Sept 2025 |
| • <b>Multi-Class Depression Detection Using BERT</b><br>Machine learning-based web application to identify levels of depression based on user-generated text inputs.                              | May 2025  |
| • <b>Dynamic Attendance Manager</b><br>The project allows the institutions to record and view attendance records effectively.   | Feb 2019  |
| • <b>Ultrasonic Radar</b><br>Ultrasonic Radar interfaced with Arduino Uno Board and output visualization using Processing IDE   | Jul 2016  |

## CERTIFICATIONS AND TRAININGS

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| • <b>AI CODING AGENTS WITH GITHUB COPILOT AND CURSOR</b><br><i>LinkedIn Learning</i>   | Jul 2025            |
| • <b>GENERATIVE AI: WORKING WITH LARGE LANGUAGE MODELS</b><br><i>LinkedIn Learning</i> | Jun 2025            |
| • <b>JAVA SCRIPT MAPS AND SETS</b><br><i>LinkedIn Learning</i>                         | Jun 2022            |
| • <b>MEAN STACK</b><br><i>Brain Mentors Pvt. Ltd.</i>                                  | Mar 2018 - Apr 2018 |
| • <b>EMBEDDED SYSTEMS USING ARDUINO</b><br><i>Delhi Technological University</i>       | Jun 2016 - Jul 2016 |