

SUDHANSHU KAKKAR

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

PROFESSIONAL SUMMARY

Software Development professional with **5+ years** of experience in Full Stack roles, and advanced expertise in **AI, ML, Deep Learning**, and **Agentic AI**, currently pursuing a Master's degree at Stevens Institute of Technology.

TECHNICAL PROFICIENCY

- **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
- **Cloud & Automation:** AWS, CI/CD, Infra as Code
- **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

STEVENS INSTITUTE OF TECHNOLOGY - Hoboken, United States

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

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

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 them and delegated tasks.
- Enforced code quality and consistency by conducting weekly code reviews and practicing pair programming, reducing the deployment defect rate by **20%**.

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.

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

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 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.

EDUCATION

- **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

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

PROJECTS

- **AI Resume Chatbot Twin using RAG Stack** Sept 2025
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
- **Multi-Class Depression Detection Using BERT** May 2025
Machine learning-based web application to identify levels of depression based on user-generated text inputs.
- **Dynamic Attendance Manager** Feb 2019
The project allows the institutions to record and view attendance records effectively.
- **Ultrasonic Radar** Jul 2016
Ultrasonic Radar interfaced with Arduino Uno Board and output visualization using Processing IDE

CERTIFICATIONS AND TRAININGS

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