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**

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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 * **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**

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| 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.

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| 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.

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| 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%**.

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| *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.

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| 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.
* Utilized Git and GitHub for version control and collaboration with team members.
* Embraced Agile methodologies like Scrum to ensure high-quality software delivery.

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| 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**

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| * Master’s Degree - Applied Artificial Intelligence   Stevens Institute of Technology, New Jersey, United States | 2025 – 2026(Expected) | |
| * Bachelor’s Degree - Computer Science Engineering - CGPA – 8.4   HMRITM, Guru Gobind Singh Indraprastha University, Delhi, India | 2015 – 2019 | |
| **RELEVANT COURSEWORK**  Applied Machine Learning, Probability and Stochastic Processes, Deep Learning, Big Data, Pattern Recognition | |  | |

**PROJECTS**

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

**CERTIFICATIONS AND TRAININGS**

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| * **AI Coding Agents with GitHub Copilot and Cursor**   *LinkedIn Learning* | Jul 2025 |
| * **Generative AI: Working with large Language Models**   *LinkedIn Learning* | Jun 2025 |
| * Java Script Maps and Sets   *LinkedIn Learning* | Jun 2022 |
| * MEAN Stack   *Brain Mentors Pvt. Ltd.* | Mar 2018 - Apr 2018 |
| * Embedded Systems Using Arduino   *Delhi Technological University* | Jun 2016 - Jul 2016 |