

# ADARSH KUMAR

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## SKILLS

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- Python, Java, Javascript, C/C++, Bash/Shell
- OpenAI, Socket.IO, Flask, React.js, Node.js, Express.js, TelegramSDK, DiscordSDK, Mongoose, AWS, Docker, ElevenLabs
- Operating Systems, Microservices, Backend, Data Structures and Algorithms, OOPS
- Generative AI, Web Development

## WORK EXPERIENCE

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### **Freelance AI Developer:**

Jul 2023 - Nov 2023

- Engineered AI-driven solutions leveraging Retrieval-Augmented Generation (RAG) and integrated OpenAI API into Discord and Telegram bots, enhancing chatbot functionality.
- Deployed AI services on AWS Lightsail, utilizing Docker for seamless deployment and Pinecone vector databases to improve data retrieval efficiency.
- Collaborated with clients to design and implement scalable AI models, optimizing performance and response accuracy.

## PROJECTS

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### **V-Doc:** *AI Medication Assistant*

July 2023

- Designed and developed an AI-driven virtual doctor using Python and React.js, ensuring responsive and user-friendly interactions.
- Integrated Langchain, OpenAI API and Pinecone to enable efficient data-driven decision-making and prioritize safety and efficacy.
- Github: <https://github.com/akn714/V-Doc>

### **Colx:** *College OLX Platform*

Aug 2023

- Developed a college-focused online marketplace to facilitate buying and selling within campus communities.
- Engineered the platform using Node.js, Express.js, React.js and MongoDB, ensuring robust backend and seamless frontend integration.
- Github: <https://github.com/akn714/colx>

### **Trash N Treasure:** *Domestic Waste Management Portal*

Jan 2024

- Built a community-driven web portal connecting households with recycling industries to promote sustainable waste management.
- Utilized Node.js and MongoDB to ensure efficient data management and seamless interaction between users.
- Github: <https://github.com/akn714/Trash-n-Treasure>

### **AI Chatbot Assistant**

July 2023

- Designed a custom AI chatbot integrated with Telegram and Discord, enhancing automated conversations.
- Leveraged RAG, OpenAI API, Langchain, and Pinecone for improved conversational accuracy and knowledge retrieval.
- Github: <https://github.com/akn714/custom-chat-bots>

### **Student Dashboard**

Oct 2023

- Developed an interactive student dashboard optimizing educational resources and tracking academic progress.

- Implemented a scalable backend using Node.js and MongoDB, ensuring a secure and dynamic data flow.
- Github: <https://github.com/akn714/Student-Dashboard>

## EDUCATION

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**B.Tech in Computer Science and Engineering** || Mainpuri, UP

2022 - 2026

*Rajkiya Engineering College Mainpuri*

**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Machine Learning Techniques, Software Engineering, Object-Oriented Programming, Computer Organization and Architecture