

# RUPAK KUMAR

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## SKILLS

- **Languages:** C++, Java, Python, JavaScript, Bash
- **Frameworks:** HTML and CSS, NodeJS, React
- **Tools/Platforms:** MySQL, MongoDB, Git, GitHub
- **Skills:** Data Structures and Algorithms, Problem-Solving Design, Ubuntu, Machine Learning
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

## TRAINING

- **Coding Spoon – DSA Bootcamp** Nov 2023-Dec 2023
  - Completed a intensive program focused on problem-solving with Data Structures and Algorithms.
  - Gained hands-on experience with competitive programming techniques and algorithmic problem-solving.
  - Worked on optimizing solutions for real-world coding challenges.

## PROJECTS

- **Manageo-Productum - A product management system:** Apr 2025
  - **Technologies Used:** JavaScript, Node.js, MongoDB, Express.js, Bootstrap
  - Developed a secure user authentication system using JWT to protect sensitive business data.
  - Designed a dynamic and user-friendly dashboard that provides real-time insights into product stocks, sales, and orders.
  - Implemented a RESTful API structure that allows seamless communication between the front end and back end.
  - GitHub Link: <https://github.com/rupak1005/manageo-productum>
  - Live Link: <https://manageo-productum.netlify.app/>
- **Snappy - A fully functional real-time chat application:** Apr 2025
  - **Technologies Used:** React.js, Node.js, Socket.io, Firebase, Tailwind CSS
  - Built a WebSocket-based messaging system using Socket.io to enable real-time conversations with minimal latency.
  - Implemented Firebase authentication, allowing secure user registration and login using email/password and OAuth providers.
  - Created private and group chat functionalities, enabling users to communicate in different settings.
  - Enforced message encryption for data security and ensured seamless synchronization of chat history across devices.
  - GitHub Link: <https://github.com/rupak1005/chat-app>
- **AI Legal Document Scanner:** Mar 2025
  - **Tech Stack:** Python, Tesseract OCR, LayoutLM, DistilBART, Streamlit, Transformers
  - Built a web app using Streamlit to scan, extract, classify, and summarize legal documents like notices and summons
  - Integrated Tesseract OCR and LayoutLM for text extraction and layout-aware entity recognition from scanned images.
  - Implemented DistilBART for automated summarization and generated structured JSON outputs of extracted data.
  - Streamlined legal document processing with NLP and CV, reducing manual effort and enhancing workflow efficiency.
  - GitHub: [github.com/rupak1005/ai-legal-document-scanner](https://github.com/rupak1005/ai-legal-document-scanner)
  - Live Demo: [ai-legal-document-scanner.streamlit.app](https://ai-legal-document-scanner.streamlit.app)
- **File Encryption Tool:** Feb 2025-Mar 2025
  - **Tech Stack:** Python, Streamlit, Cryptography
  - Developed a secure file encryption and decryption tool with a Streamlit-based GUI for an intuitive user experience.
  - Utilized the Python cryptography library to implement strong password-based encryption algorithms.
  - Added features like drag-and-drop support, password strength meter, and secure password validation.
  - Packaged the tool for easy distribution using PyInstaller, making it cross-platform and user-friendly.
  - GitHub: [github.com/rupak1005/file-encryption-tool](https://github.com/rupak1005/file-encryption-tool)
  - Live Link: <https://file-encryption-tool.streamlit.app/>

## CERTIFICATES

- Mastering Data Structures and Algorithms using C and C++(Udemy) Nov 2024
- Generative AI with Large Language Models Sept 2024
- Prompt Engineering for ChatGPT Sept 2024

## EDUCATION

- **Lovely Professional University** Punjab, India  
Bachelor of Technology - Computer Science and Engineering Since August 2022
- **Kendriya Vidyalaya School** Haridwar, Uttarakhand  
Intermediate; **Percentage: 82%** April 2019 - March 2021
- **Kendriya Vidyalaya School** Haridwar, Uttarakhand  
Matriculation; **Percentage: 86.2%** April 2017 - March 2019