Arpit Shukla

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EDUCATION

AJAY KUMAR GARG ENGINEERING COLLEGE (AKTU)
Master of computer applications **(MCA)**
Sept 2024 - Present
Delhi-NCR (Ghaziabad)

UNIVERSITY OF LUCKNOW
Bachelor of computer applications **(BCA)**
May 2024 | Lucknow, UP

Florence Nightingale College
Higher Secondary 12th
July 2020 | Lucknow, UP

Florence Nightingale College
Senior Secondary 10th
May 2018 | Lucknow, UP

COURSEWORK

UNDERGRADUATE
Object Oriented Programming
Operating Systems
Data Structures and Algorithm
Analysis and Design of Algorithm
R-DBMS
Mathematics I,II

SKILLS

Languages and Framework
- C/ C++
- React.js
- Express.js
- Node.js
- SQL
- Java
- JavaScript
- JSP
- MongoDB
- Servlet
- python
- tensorflow

Tools and Software
- Eclipse
- NetBeans
- VsCode
- Git , GitHub

EXPERIENCE

MERN Developer Intern
Feb 2024 – July 2024 | Analyze Infotech

Collaborated with senior developers to debug backend issues in Node.js and MongoDB, reducing API response time by 25%.

Contributed to the development of a full stack MERN application by designing reusable React components and integrating RESTful APIs.

Improved website performance by optimizing frontend state management and implementing responsive UI with Tailwind CSS, enhancing user experience by 40%.

PROJECTS

LeNet-5 CNN Reproduction| Python | TensorFlow | MNIST
- Reproduced the classic LeNet-5 architecture from *LeCun et al., 1998* for handwritten digit recognition, achieving 99% accuracy.
- Experimented with hyperparameters and visualized CNN feature maps to analyze layer-wise learning.
- Focused on reproducible, research-style code and clear documentation.
  - 🔗 GitHub → https://github.com/arpit-shukla-13/lenet5-reimplementation

Real-time Chat Application| MERN + Socket.IO |
- Built a real-time chat platform using React, Node.js, Express, MongoDB, and Socket.IO.
- Enabled features like instant messaging, user authentication, typing indicators, and group chat support.
  - Live Demo -> https://chitchatttt.netlify.app/

SITEMAP GENERATOR — AUTOMATED SEO TOOL| MERN Stack |
- Built a full-stack MERN application to automate XML sitemap creation and management with easy URL handling and metadata support.
- Improved SEO performance through auto-generated structured sitemaps, ensuring accurate indexing and higher website visibility.
  - Live Demo -> https://site-map-generator.vercel.app/

SECURE FILE SHARING SYSTEM | Node.js | React | System Concepts
- Developed a secure file sharing web app with chunked upload, custom XOR encryption, and parallel upload simulation.
- Implemented metadata management, role-based access, and auto-cleanup of temp files to simulate real-world file system operations.
  - Live Demo -> https://findfiles.netlify.app/

Space Booking Platform | Next.js | Node.js | MongoDB| Stripe |
- Developed a comprehensive web application for users to discover, book, and pay for flexible spaces, featuring a dedicated admin panel for management.
- Engineered secure, role-based user authentication using JWT and bcrypt.js for password hashing, and integrated the Stripe API for seamless, real-time payment processing.
  - Live Demo -> https://find-your-space-ten.vercel.app/