

Summary

MCA student with practical experience in **Data Structures & Algorithms (DSA)** and **MERN stack development**, including **REST API integration**, **database-driven applications**, **UI/UX-focused interfaces**, and **predictive modeling**. Strong problem-solver with effective teamwork skills and clear technical communication.

Education

BANARAS HINDU UNIVERSITY

Masters in Computer Applications

2024 – 2026

Varanasi

ARYABHATTA KNOWLEDGE UNIVERSITY

Bachelor in Computer Applications

2021 – 2024

Patna

Technical Skills

Programming Languages: Java, JavaScript, HTML, CSS

Frameworks & Libraries: React, Node.js, Express.js, Bootstrap, jQuery

Machine Learning: Regression Models, Scikit-Learn, NumPy, Pandas, Data Preprocessing

Database & Operating System: MongoDB, MySQL, Windows, Linux

Development Tools: Git, GitHub, Postman, VS Code

Experience

Aditya Vision Limited, Patna (Onsite)

Jan 2024 – Apr 2024

Project Intern

- Designed an intuitive and responsive UI for a Smart Billing Management System using **CSS** and **Bootstrap**, contributing to a estimated 15% increase in user engagement during the testing phase.
- Performed **UI/UX testing**, collected user feedback, and implemented design improvements based on usability insights.
- Gained hands-on experience across the full **software development lifecycle** including requirements gathering, design, development, testing, and deployment.

Projects

LapWise – An Intelligent Laptop Advisor | *React, Node.js, Express, MongoDB, Random Forest, Streamlit* Dec 2025

- **Links:** Live: <https://lapwise-fn.onrender.com/> — GitHub: <https://github.com/Subham77a/LapWise-Frontend>
- Built a MERN-stack web application to predict laptop prices and provide data-driven purchase recommendations.
- Implemented a **Random Forest regression model** with an **R² score of 0.88** to forecast **price, display quality, performance score, brand score, and price fairness**.
- Deployed the ML model using **Streamlit** and hosted backend services on **Render** with secure **JWT-based authentication**.

Video Processing Application | *React.js, WebAssembly, FFmpeg.wasm*

Dec 2024

- Developed a fully **client-side media processing application** enabling in-browser **audio and video format conversion** with **zero server dependency**.
- Integrated **FFmpeg** compiled to **WebAssembly** to achieve **fast, high-quality processing**, improving **conversion efficiency by over 60%**.
- Designed an **intuitive user interface** with media preview, basic editing controls, and **real-time progress tracking**.
- Strengthened proficiency in **React hooks**, asynchronous operations, and **multimedia browser APIs**.

Certifications

Software Project Management

NPTEL — Nov 2025

Cloud Computing

NPTEL — Apr 2025

JavaScript Development

Infosys — Dec 2024