

# GAURAV DUBEY

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## SUMMARY

Passionate Computer Science and Engineering graduate with experience in web development and AI applications. Looking for opportunities to leverage my skills in programming, problem solving, and project management to contribute to innovative projects and enhance my professional growth.

## EDUCATION

**Rewa Engineering College, Rewa**  
*B.Tech in Computer Science and Engineering*

**2021 – 2025**  
*Rewa, Madhya Pradesh*

## TECHNICAL SKILLS

- **Programming Languages:** C++, C, Python
- **Web Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js), HTML, CSS, JavaScript
- **Core CS Concepts:** Data Structures, DBMS, OOP, Operating Systems
- **Other Technologies:** Git, GitHub, VS Code, RESTful APIs, AWS, Agile

## PROJECTS

### Potato Disease Classification 🔄 *CNN, FastAPI, Streamlit, TensorFlow*

- Developed an image classification model using a custom Convolutional Neural Network (CNN) to detect potato leaf diseases (Early Blight, Late Blight, Healthy) with 95%+ accuracy.
- Handled data preprocessing and augmentation on a dataset of 2000+ images; implemented regularization techniques like dropout and early stopping to prevent overfitting.
- Deployed the trained model using FastAPI, and built an interactive Streamlit UI for real-time prediction from user-uploaded leaf images.

### Doctor Appointment System 🔄 *MERN Stack, Node.js, MongoDB, React.js*

- Developed a full-stack healthcare web app using the MERN stack to allow users to book, manage, and track doctor appointments with role-based dashboards for patients and doctors.
- Implemented MongoDB schemas for storing appointment data, user profiles, and availability, with basic authentication and secure data handling using JWT and bcrypt.
- Built a responsive frontend using React.js with forms, appointment calendars, and user login, ensuring a clean and intuitive user interface.

### StudyNotion 🔄 *Interactive EdTech Learning Platform*

- Designed a dynamic course management system with cloud storage integration.
- Developed real-time notifications using WebSockets for instant updates.
- Optimized database queries, improving system efficiency by 30%.

## INTERNSHIP EXPERIENCE

### TechSaksham - AICTE Internship on AI: Transformative Learning *Disease Outbreak Prediction System 🔄*

**Jan 2025 - Feb 2025**

- Developed a Machine Learning-based disease prediction system for early detection of Diabetes, Heart Disease, and Parkinson's Disease using multiple ML models like Logistic Regression, Decision Trees, and Support Vector Machines.
- Built an interactive web application using Streamlit to provide users with real-time health risk predictions based on inputted medical parameters such as blood pressure, glucose levels, and BMI.
- Enhanced prediction accuracy through data preprocessing and implemented efficient model inference using Pickle serialization for storing trained models.

## CERTIFICATIONS

- Mastering Data Structures and Algorithms (Udemy)
- Full Stack Web Development (CodeHelp)
- C++ Programming Foundation (GeeksforGeeks)
- 100 Days of Code: The Complete Python Pro Bootcamp (Udemy)

## EXTRACURRICULAR

- **Volleyball:** Active player in college tournaments.
- **E-Cell Club:** Organized workshops and events to encourage entrepreneurship.