Laxmikant Dubey

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Education

Ramdeobaba University, Nagpur 2022–2026
Bachelor of Technology in Computer Science and Engineering
Core Subjects: Algorithms & Data Structures, OS Concepts, Computer Architecture, Database Design & Management, Networking Fundamentals, AI & ML Applications

Technical Skills

Programming Languages: Python, Java, C++, C, SQL
Web Technologies: HTML5, CSS3, JavaScript (ES6+), React.js, Node.js, Next.js, Express.js
Frameworks & Libraries: React, Flask, MERN Stack, Tailwind
Database Management: MySQL, MongoDB, PostgreSQL
Development Tools: Version Control (Git), GitHub, VS Code, Jupyter Notebooks, Jenkins, Docker, Postman
Cloud: Firebase, AWS (Basics)
Core Competencies: Object-Oriented Programming, Database Design, RESTful APIs, Software Development Life Cycle (SDLC)

Projects

Notation – A Resource Sharing Application

- Built a platform to help students seamlessly share academic resources such as notes, assignments, and study material.
- Overcame limitations of traditional methods by supporting diverse file formats, ensuring broader accessibility.
- Enhanced collaboration within the institute by providing real-time updates and centralized access to shared content.

Pingy – Real-Time Chat Application

- Developed a full-stack real-time chat platform using the MERN stack (MongoDB, Express.js, React, Node.js).
- Implemented Socket.io for instant, bidirectional communication, enabling private and group chats.
- Integrated JWT-based authentication for secure and persistent user login sessions.
- Designed a responsive and intuitive UI for chat, contact management, and message history.
- Created RESTful APIs to manage user accounts, chat rooms, and message storage.
- Optimized application performance for low-latency message delivery and seamless cross-device usage.

HyperScape

- Deep Learning-Based Urban Land Classification using Hyperspectral Imagery
- Designed a CNN-based architecture with 3D-CNN and Transformer extensions for enhanced classification accuracy.
- Utilized TensorFlow and PyTorch with techniques like spectral-spatial feature extraction and dimensionality reduction.
- Achieved high accuracy with strong generalization across multiple hyperspectral datasets.
- Generated land-cover classification maps for better interpretability and decision-making.

Achievements

- 3-Star at CodeChef
- 1650+ Rating at LeetCode
- Solved 600+ algorithmic problems across competitive coding platforms

Certifications & Specialization

Ramdeobaba University, Nagpur 2023–2025
Full Stack Web Development Honors Track
Oracle University 2025
Oracle Cloud Infrastructure 2025 AI Foundations Associate