UMESH KUMAR ARYA

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EDUCATION

Maulana Azad National Institute of Technology, Bhopal
B.Tech in Computer Science and Engineering   2020- 2024

PROJECTS

AI-Powered Job Portal   April 2024
Technologies: React.js, Node.js, Express.js, MongoDB, OpenAI, JWT, Natural Language Processing

- Developed a full-stack AI-driven job portal using the MERN stack with AI-based resume parsing and job recommendations.
- Implemented NLP models to extract skills and experience from uploaded resumes, enhancing candidate-job matching accuracy.
- Integrated user authentication (JWT), intelligent search, and dynamic application tracking features for job seekers and recruiters.
- Built AI-powered career recommendation tools for personalized guidance to users based on profile data.

MERN Stack Blood Bank Project   July 2024
Technologies: MongoDB, Express.js, React.js, Node.js

- Developed a web application to facilitate blood donation and management using the MERN stack.
- Implemented features such as donor registration, blood requests, inventory management, and user authentication.
- Integrated search functionality for efficient blood inventory tracking and management.
- Focused on providing a seamless user experience and efficient operations for blood banks and donors.

Farmer Helper   2023
Technologies: Python, PyTorch, Torchvision, Flask, HTML, CSS

- Developed a web application to assist farmers with crop recommendations, fertilizer suggestions, disease detection, and weather information.
- Built machine learning models for disease detection using PyTorch and deployed the backend with Flask.
- Improved agricultural productivity through data-driven insights and user-friendly web interfaces.

SKILLS AND INTERESTS

Languages & Frameworks: C/C++, HTML, CSS, Tailwind,Java,Python,JavaScript, Node.js, React.js, SQL
Database: MySQL, MongoDB
Coursework: DSA, OOPs, DBMS, OS, CN
Developer Tools: VS Code, Git & GitHub
AI Skills: Natural Language Processing (NLP), AI Integration, Career Recommendation Systems
Soft Skills: Problem Solving, Team Work, Communication, Team Management
Areas of Interest: Frontend Development, Full Stack Web Development, Software Development

CERTIFICATIONS & ACHIEVEMENTS

Generative AI for Beginners View Certificate   Feb 2024
Introduction to Cloud Computing on AWS for Beginners [2025] View Certificate   jan 2024

- Solved 100+ problems on competitive platforms: GFG: 102, CodeStudio: 123, LeetCode: 132
- Qualified JEE Mains, securing admission to NIT