VISHAL SINGH RAJAWAT

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CAREER OBJECTIVE

Enthusiastic and detail-oriented Final Year Engineering student eager to apply my knowledge of Machine Learning (ML), Deep Learning (DL), Natural Language Processing (NLP), and Computer Vision (CV) to solve real-world business challenges. Passionate about leveraging data-driven solutions, model deployment, and cloud-based AI technologies to drive innovation in an enterprise environment

EDUCATION

B.E., Electronics and Computer Engineering   Graduating May 2025

M.B.M. University, Jodhpur

Relevant coursework: Database Management Systems, Computer Networks, Object-Oriented Programming, Computer Organization and Architecture, Operating Systems, Data Structures and Algorithms

SKILLS

Programming Languages: Python, C++, JavaScript
Databases: MySQL, MS SQL server, MongoDB
Frameworks and Libraries: Node.js, Express.js, NumPy, Pandas, Pydub, Pygame
Tools and Software: TensorFlow Lite, Google Colab, Open CV, Git, GitHub, Visual Studio Code
Other Skills: Analytical thinking, problem-solving, effective communication, collaboration, Agile methodology

PROFESSIONAL EXPERIENCE

Zeal Code, Jaipur, RAJ: Web Development Intern   Jun 2023 – Jul 2023
- Designed and developed a School Management System website
- Increased administrative task efficiency by 20% and improved user experience across all devices

ACADEMIC PROJECTS

Object Detection and Recognition using AI
- Developed a lightweight real-time object detection model using TensorFlow Lite for embedded systems
- Optimized model performance for edge AI applications on Raspberry Pi 4, reducing inference time
- Implemented MobileNet SSD architecture for efficient object detection with minimal computational cost

Car Price Predictor using Machine Learning
- Developed an ML model with Linear Regression to predict used car prices at 85%+ accuracy on 5,000+ records
- Improved model performance by 20% through feature engineering, data preprocessing,& hyperparameter tuning
- Built and deployed a Flask-based web app, optimizing response time to < 1s with AJAX and Bootstrap

E-commerce Database Management System
- Architected a high-performance relational database schema for an e-commerce store using
- Optimized data retrieval times to enhance transaction efficiency and user experience

EXTRA-CURRICULAR

National Cadet Corps (NCC)   Sep 2021 – May 2024
- Volunteered as a National Cadet Corps (NCC) cadet, fostering discipline, and a commitment to community service
- Achieved C-Certificate with Distinction, demonstrating leadership, teamwork and organizational skills

National Shooting Championship Competitions   Nov 2023
- Represented Rajasthan state at the national level, showcasing responsibility, precision, and focus
- Developed strong concentration, the ability to make quick, accurate decisions, and perform well under pressure

AWARDS AND RECOGNITIONS

- Certificate of appreciation for volunteering in Vigyan Sarvatra Pujyate: Festival of SCoPE under Vigyan Prasar
- Secured 36th position at All India G.V. Mavalankar Shooting Competitions in 10M Air Rifle Event
- Gold medal in shooting and parade competition at NCC annual training camp