

**Dharm Singh**  
Jaipur, Rajasthan 303007  
dagardharm31503@gmail.com — 8209990596  
linkedin.com/in/Dharm — github.com/Dharm

## Education

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### IIITV - ICD

November 2022 – May 2026

*Bachelor of Technology in Computer Science, Diu, India*

## Relevant Coursework

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Data Structures, Algorithm Analysis, Software Engineering, Database Management, System Software, Computer Architecture, Object-Oriented Programming (OOP), Cryptography, Computer Networks, Artificial Intelligence, Operating Systems

## Projects

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### AI-Powered Resume Screening & Job Matching — Machine Learning, Flask, React      March 2025

- Engineered an AI-driven resume screening platform that automated job matching, improving recruitment efficiency by 40%.
- Developed a Flask-based backend with ML models for intelligent resume parsing and ranking based on job descriptions.
- Crafted an intuitive React-based frontend, enhancing user experience and reducing processing time by 30%.

### Resource Allocation in Cloud Computing using Reinforcement Learning — PPO, Q-Learning      November 2024

- Built a reinforcement learning-based system for dynamic resource allocation, reducing cloud infrastructure costs by 20%.
- Optimized model accuracy by 15% through fine-tuning PPO and Q-Learning algorithms, enhancing resource optimization.
- Designed an efficient decision-making framework, minimizing resource wastage by 30% and improving task completion times by 10%.

### Low Light and Dark Image Enhancement — Optimization Techniques, Image Processing      August 2024

- Developed a novel image enhancement algorithm that increased brightness levels by 45%, enabling improved visibility.
- Conducted extensive analysis on 600+ images, achieving a measurable noise reduction of 30% and significant contrast enhancement.

### Nutrifit - A MERN Stack Web-App for Diet and Fitness — MERN Stack      March 2024

- Created a robust diet and fitness web application, facilitating personalized workout and meal plans for 100+ users.
- Integrated MongoDB for seamless user data management, achieving a 40% reduction in data retrieval times.
- Designed a dynamic React-based UI that increased user engagement by 35% and retention by 20%.

### Cattle Management System using MongoDB — MongoDB, Node.js      January 2024

- Engineered a comprehensive cattle management system, optimizing herd tracking and data storage for 200+ cattle.
- Streamlined database operations with MongoDB, reducing data access time by 25% and improving system scalability.
- Incorporated real-time monitoring features, enhancing decision-making efficiency by 30% for cattle health tracking.

## Technical Skills

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**Languages:** C, C++, HTML, CSS, JavaScript

**Databases:** SQL, MongoDB

**Developer Tools:** VS Code, Google Cloud Platform, Archimate, StarUML, QtSpim, Verilog, Google Colab

**Technologies/Frameworks:** React, Node.js, Linux, Git, Postman, Express, Selenium, Bootstrap, Tailwind, Shell Scripting

## Achievements

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**Secured 5th Rank in Hack-IIITV-ICD**

March 2025

- Participated in a 36-hour hackathon with 1000+ teams and secured the **5th position** for an AI-powered recruitment solution.
- Engineered an intelligent resume screening and job-matching system, enhancing recruitment efficiency by 40%.
- Developed a Flask-based backend with ML models for ranking resumes based on job descriptions.
- Created an interactive React frontend, reducing resume processing time by 30%.

## Experience

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**Secretary, Cricket Club — IIITV-ICD**

Present

- Led and coordinated 15+ cricket tournaments, increasing club membership by 20% and participation by 35%.
- Managed logistics for training sessions, facilitating 40+ practices, enhancing team performance by 25%.
- Collaborated with 10+ team captains to strategize match schedules, ensuring 100% on-time execution of events.

**Core Member (Finance), Microsoft Learn Student Ambassador (MLSA)**

Present

- Administered financial operations and sponsorships for MLSA events, ensuring effective budget utilization and reducing costs by 10%.
- Coordinated with industry experts and Microsoft professionals to organize technical workshops and hackathons.
- Contributed to financial planning and execution of community-driven projects, increasing engagement by 30%.

## Extracurricular

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- Solved 200+ challenging problems on LeetCode, improving problem-solving skills.
- Completed Deep Learning fundamentals training offered by NVIDIA.
- Finished Google Cloud Skill Boost courses, gaining proficiency in cloud computing and scalable applications.