

# HARSHADA DESHINGKAR

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## EDUCATION

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### Vishwakarma Institute of Technology

BTech. In Artificial Intelligence and Data Science

CGPA (till previous semester): 8.85, SGPA (4<sup>th</sup> Semester): 9.14

Pune, India

2022 – Expected May 2026

### Rajiv Gandhi Academy of E-Learning school & Science Junior college

Maharashtra State Board of Secondary and Higher Secondary Education

2021-2022

Higher Secondary Certificate Examination (PCM bifocal- Computer Science)

Percentage: 84.83%

### City International School

Central Board of Secondary Education

2021-2022

Secondary High School Examination, 2020

Percentage: 93.60%

## MAJOR PROJECTS

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### FREEDUP: FREE your DUPLICATES

A web portal to detect and delete duplicate files and **optimize storage** using hashing methodology.

*Technologies Used:* Flask, Python, HTML, CSS.

### Landmine Detecting Surveillance Robot

Designed for armed forces, this robot can detect landmines, send accurate locations, and monitor surroundings for human activities where patrolling is challenging.

*Technologies Used:* Embedded C, metal detector, motors.

### Fitness Fusion: Gym Website

Developed a completely dynamic and reactive gym website providing comprehensive details about the gym, memberships, purchases, and offers. Designed for ease of modification, allowing gym owners to update new offers and content easily.

*Technologies Used:* HTML, CSS, JavaScript, jQuery, MySQL, PHP.

## PATENTS & PUBLICATION

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### Smart Rakshak: Weapon Detecting Surveillance Robot

Patent published under Indian Patent Act, developed a robot equipped with ESP32 CAM for continuous video surveillance. Implemented with proper authentication so as to access live GPS tracking, and real-time **weapon detection using a CNN algorithm** with accuracy of 95%.

### Enhanced Energy Metering and Management through Integrated IoT Systems

Patent published under Indian Patent Act, created a system for users to **monitor real-time energy consumption** of each device and allowing electricity providers to remotely enable/disable electric supply for unpaid bills.

### Data Deduplication using Python

Paper published in 7th International Conference on Computing, Communication, Control and Automation (ICCUBEA-2023) and is available on IEEE Explore.

## ROLES OF RESPONSIBILITIES

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### Technical Secretary

Akhil Bhartiya Vidyarthi Parishad (ABVP), VIT Pune

2023- Present

- Addressed and resolved technical issues faced by students, developed solutions to alleviate study and exam stress.
- Worked on initiatives for student welfare and support.
- Coordinated with faculty and administration to implement student-centric solutions.
- Organized and conducted seminars to help students with academic challenges.

### **Finance Head**

*Abhividdhi- Student Training and Development Committee*

2023- 2024

- Managed finances for events, procured sanctioned budgets and ensured proper allocation.
- Oversaw all billing and reimbursement processes.
- Coordinated with various stakeholders to ensure smooth event management.

### **Executive Committee Member**

*IEEE Student Branch, VIT Pune*

2023- 2024

- Oversaw the planning and execution of technical events, including hackathons and workshops.
- Coordinated with college administration to secure venues and resources for events.
- Promoted events and handled participant registrations.

### **Public Relations Volunteer**

*Akhil Bhartiya Vidyarthi Parishad (ABVP), VIT Pune*

2022-2023

- Communicated with ABVP units across Maharashtra.
- Assisted in organizing and promoting events and initiatives.
- Strengthened relationships and collaboration among ABVP units.

## **MINOR PROJECTS**

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### **Book Recommendation System**

Developed a recommendation system in R to suggest books based on user preferences and behavior.

*Technologies Used:* R, Collaborative Filtering.

### **Property Management System**

Developed a comprehensive property management system where users can buy, sell, or rent properties. Integrated with a database to store and manage details about plots, flats, and other property types.

*Technologies Used:* Java, MySQL.

### **Personalized Billing Management System**

Designed a generalized system for shop owners to generate, maintain, add, and delete records of bills and purchases. Includes features for managing products with specifications to accommodate various types of shops.

*Technologies Used:* Java (swing, AWT).

### **Gripper Rover**

Developed a robot car capable of lifting weights up to 2.5 kgs using ESP 32 module, ultrasonic sensors, and motors.

*Technologies Used:* ESP32 – Embedded C programming, gripper, motors.

### **Ultrasonic Radar System**

Developed a prototype radar system using Arduino Uno and ultrasonic sensor to detect objects in the periphery.

*Technologies Used:* Embedded C programming, ultrasonic sensors.

## **CERTIFICATIONS**

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### **IBM Z-Explore Concepts**

Oct 2024

IBM

*Skills:* Mainframe Technologies, zOS

### **Fundamentals of Deep Learning**

Aug 2024

Nvidia

*Skills:* Deep Learning, Machine Learning

### **Power BI Essential Training**

Jun 2024

LinkedIn

*Skills:* Data Analysis, Business Intelligence, Microsoft Power BI

### **Deep Learning: Face Recognition**

Jun 2024

LinkedIn

*Skills:* Deep Learning, Face Recognition

### **Advanced Design Patterns: Design Principles**

May 2024

LinkedIn

*Skills:* Software Design Patterns

<b>Design Thinking: Data Intelligence</b> LinkedIn <i>Skills:</i> Data Intelligence	May 2024
<b>Programming Foundations: Design Patterns</b> LinkedIn <i>Skills:</i> Java, Software Design Patterns	May 2024
<b>Project Initiation: Starting a Successful Project</b> Google Career Certificates <i>Skills:</i> Project Management, Team Management, Collaboration tools.	Jan 2024
<b>Introduction to Python OpenCV</b> Simplilearn <i>Skills:</i> Object detection, face recognition	Nov 2023
<b>Data Science Using Python</b> Simplilearn <i>Skills:</i> Data Science, Statistics for data science	Jun 2023
<b>Eaton Changing Gears 6.0</b> Eaton India and Abhivridhi, VIT Pune <i>Skills:</i> Leadership, teamwork, Campus to Corporate, Time Management	May 2023
<b>Foundations of Project Management</b> Google Career Certificates <i>Skills:</i> Project Management, Strategic Thinking, Change Management, Agile and Waterfall Methodologies	April 2023
<b>Design Thinking for Beginners</b> Simplilearn <i>Skills:</i> Design Thinking	Jan 2023
<b>AMCAT</b> Aspiring Minds Logical Ability- 99 percentile, English Comprehension- 92 percentile, Quantitative Ability (Advanced)- 84 percentile	Dec 2022

## EXAMS QUALIFIED

- **JEE Mains 2022**  
91.1376404 percentile and all India rank (CRL) 79680 for B.E./B.Tech.
- **JEE paper-II (B. Arch) 2022**  
All India rank (CRL) 4487
- **JEE paper-II (B. Planning) 2022**  
All India rank (CRL) 2077
- **Qualified NATA (National Aptitude Test in Architecture) 2022**  
Merit score 145.83.
- **CUET 2022**  
English-98.08 percentile, general test -88.67 percentile, mathematics -86.51 percentile and physics- 91.11 percentile.
- **MHT CET 2022** percentile- 95.9847681.
- NCO 2017-18 (National Cyber Olympiad) International Rank 199.
- NCO 2018-19 (National Cyber Olympiad) International Rank 293.

## EXTRA- CURRICULAR ACTIVITIES

### MUSIC

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- Completed **Praveshika Purna (3rd Year)** in **Indian Classical Music (Vocal)** from Akhil Bhartiya Gandharva Mahavidyalaya Mandal.
- Completed **Prarambhik (1st Year with Distinction)** in **Harmonium** from Akhil Bhartiya Gandharva Mahavidyalaya Mandal.
- Represented school in Swar Shankar Inter School Music Competition organized by Indira National School and secured best presentation award.

### SPORTS

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- **Gold Medal, 1st position** in Inter Do-jo Karate Kata Championship, Pune.
- **Bronze Medal, 3rd position** in 24th **National World Funakoshi Shotokan Karate Championship** at National Level, Organised by World Funakoshi Shotokan Karate Organisation.
- Completed 5th Kyu (Maroon Belt) in Shotokan Karate from Universal Shotokan Karate- Do Association.
- Participated in 100 m Sprint (Athletics) at District level.