

Krutay Upadhyay

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Junior at IIT Dharwad, passionate about AI/ML and competitive programming. Skilled in leveraging machine learning for research and real-world applications. Seeking impactful opportunities to apply my skills and contribute to innovation.

EDUCATION

IIT Dharwad , Computer Science and Engineering

Nov 2022 - Present

- CPI : 8.94
- Key coursework completed includes **Artificial Intelligence, Probability, Data Analysis, Design Algorithm and Analysis, Computer Architecture, Deep Learning, Operating Systems, Database and Information Systems and Software Development for Scientific Computing.**

RMG Maheshwari English Academy

2020 - 2022

- XII : 96%

J.H Ambani Saraswati Vidyamandir

2010 -2020

- X : 95%
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SKILLS

- ◆ **Programming Skills** : Python | Java (basic) | C | C++
 - ◆ **Machine Learning**: NumPy | Pandas | Matplotlib | PyTorch | Deep Learning | Computer Vision
 - ◆ **Frameworks** : YOLO | OpenCV | Mediapipe
 - ◆ **Tools** : Github | Google Colab | SQL
 - ◆ **Web Development** : HTML | CSS | JavaScript | Bootstrap (Basics) | React with Node.js (Basics)
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ACHEIVMENTS

- ◆ **Joint Entrance Exam, Advanced (JEE-A)** : All India Rank 4058
 - ◆ **Joint Entrance Exam, Mains (JEE-M)** : All India Rank 4251
 - ◆ **GUJCET** : Scored 102 out of 120
 - ◆ **AI/ML Certification (Coursera)** : Completed the comprehensive AI/ML Certification by Andrew Ng, mastering fundamental and advanced machine learning concepts including supervised and unsupervised learning, deep learning, and practical model evaluation techniques.
 - ◆ **AI/ML Workshop (IISc Bangalore)** : Participated in an intensive AI/ML Workshop at IISc Bangalore, developing advanced skills in neural networks and data-driven decision-making through hands-on projects and real-world applications.
 - ◆ **Vocational Training Certificate(Reliance Industries Imt.)** : Obtained hands-on expertise in networking, web development, and database monitoring. Developed practical skills through real-world projects, enhancing technical proficiency and problem-solving abilities.
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PROJECTS & RESEARCH

- ◆ **Pose Estimation & Injury Risk Prediction (Research, IIT Dharwad)**
 - Developing a computer vision system to evaluate poses against expert benchmarks, predicting injury risks based on age, flexibility, balance, and speed using mediapipe.
 - ◆ **Transfer Learning for Biological Networks (Research, IIT Dharwad)**
 - Researched machine learning applications in network biology to predict biological behaviors using transfer learning using Bert Tokenizer model.
 - ◆ **Human Detection & Tracking using YOLOv8 & DeepSORT**
 - Built a real-time object tracking system for human detection with **YOLOv8** and **DeepSORT**, achieving high accuracy in motion tracking.
 - ◆ **Mastermind Game using Genetic Algorithms**
 - Developed an AI-powered solver for the Mastermind game using **evolutionary algorithms**.
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EXTRACURRICULARS & LEADERSHIP

- ◆ **GradStories Project – Career Development Cell (CDC), IIT Dharwad:**

Conducted comprehensive interviews with alumni to gather and share career guidance and success strategies, contributing to the CDC's mission of fostering professional development among students.
- ◆ **Inter IIT Football Team, IIT Dharwad:**

Represented the institute in the 56th Inter IIT Sports Meet, showcasing teamwork, discipline, and competitive spirit.
- ◆ **Organizing Team Member, IIT Dharwad Events:**

Assisted in the successful execution of major events including Parsec (Annual Tech Fest) and Freshers' Events, demonstrating strong organizational and coordination skills.
- ◆ **General Secretary (Ground Floor), IIT Dharwad:**

Led hostel operations by coordinating communications, organizing community events, and managing daily tasks—demonstrating strong leadership, initiative, and effective problem-solving skills.
- ◆ **Languages:**

Proficient in Sanskrit, English, Hindi, and Gujarati.