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%

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**.
- Reliance Industries – Vocational Training
  - Gained hands-on experience in **networking, cyber security, web development** and **database monitoring.**

SKILLS AND ACHIEVEMENTS

- Technical Skills: **Python, PyTorch, SQL, NumPy, Pandas, Matplotlib, Java, C, DSA, Bash, VHDL**
- Tools & Frameworks: **YOLO, OpenCV, TensorFlow, MongoDB, Scikit-learn,Mediapipe**
- Achievements:
- JEE Mains AIR: 4251 | JEE Advanced AIR: 4058
- AI/ML Certification by Andrew Ng (Coursera)
- AI/ML Workshop by IISc Bangalore – Advanced skills in neural networks & data-driven decision making

EXTRACURRICULARS & LEADERSHIP

- Career Development Cell (CDC), IIT Dharwad – Events & Operations Team
- Inter IIT Football Team (IIT Dharwad) – Participated in 56th Inter IIT Sports Meet
- Organizing Team for IIT Dharwad Events – Parsec (Annual Tech Fest), Freshers' Events
- General Secretary (Ground Floor), IIT Dharwad
- Ek Bharat Shreshtha Bharat (EBSB) Representative, IIT Dharwad
- Languages known :- Sanskrit,English,Hindi,Gujarati