Kumar Sampurn

AI/ML & Computer Vision Developer Data Science and Data Analyst

Creative developer with a problem-solving mindset. Skilled in Computer Vision, AI/ML, and Data Science. Experience in Python, C, and Java. Quick learner, team player and effective communicator.



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EDUCATION

B Tech C.S.E PES UNIVERISTY

09/2021 - Present

GPA: 8.59

12th ICSE Boards Rajendra Vidyalaya

03/2019 - 05/2021

92%

EXPERIENCE

Team Lead and Lead Coder STARC'23

05/2023 - 07/2023

Banglore

Sports Analytics Summer Internship program by PES University. Achievements

- Computer Vision-Based Exercise Form Analysis and Correction System. ☑
- Created a model that analyzes exercise form.
- Integrated a reverse image search feature to provide users with visual feedback on correcting their exercise form.
- Achieved a form assessment accuracy of 93%, leading to improved safety and effectiveness in fitness training.
- Technologies: Python, TensorFlow, OpenCV, Mediapipe, Yolo-Nas, Data Preprocessing.

Tutor UrbanPro

07/2021 - Present

Online: Part Time

UrbanPro is an online teaching platform for peer to peer learning Mentorina Students in subjects like

- Java , C / C++.
- Data Structures and Algorithm.
- Front-End Web Development.
- Mentored more than 20 students of all ages, from high school to working professionals.

Club President

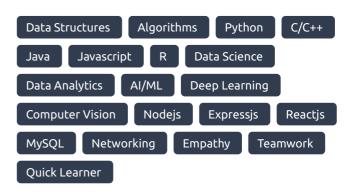
Team Avions - Aviation Club

09/2022 - Present

Achievements

- Led a team of 15 members in planning and executing successful club events.
- Managed club finances, including budgeting and fundraising.
- Conducted workshops for club members to enhance their skills.

SKILLS



PERSONAL PROJECTS

Alphabet

- Real-time Cursive Text Recognition and Correction System.
- Accurately identifies correctly written cursive text with accuracy of 90% and marks regions with writing deviations.
- Technologies: Python, OpenCV, Machine Learning.
- Github link to project.

Elixer

- Police assistance drone equipped with object detection, tracking, and pepper spray delivery capabilities.
- Integrated object detection and tracking into the drone system for real-time operation.
- Github Link to Project. 🗹

Flash Games with Javascript

- Github Link to Project.
- BreakOut Game.
- Space Invaders.
- Drum Kit. 🗹

Computer Vision Projects

- Gym Buddy : Count number of biceps curls .
- Gesture-Based Speaker Volume Control: Adjust your device's audio volume by simply changing the distance between your fingertips.

Salinity: CalCOFI case study

- Prepared a report for datathon.
- Applied techniques: Data Cleaning, Data Imputation, Linear Regression, Correlation, Data Visualizations.
- Link to Report.

CERTIFICATES

MRD Scholarship

I received this scholarship three times for ranking in the top 20% of the department during a semester.

Problem Solving Intermediate: Hackerrank

Skills used Data Structures and Algorithms , Problem solving skills.