

# 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

Bangalore

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

Mentoring 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

Data Structures

Algorithms

Python

C/C++

Java

Javascript

R

Data Science

Data Analytics

AI/ML

Deep Learning

Computer Vision

Nodejs

Expressjs

Reactjs

MySQL

Networking

Empathy

Teamwork

Quick Learner

## 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.