

Kumar Sampurn

AI/ML Developer , Data Analyst , Full Stack Web Development

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



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📞 8961429971

📄 [kumarsampurn.github.io](https://github.com/kumarsampurn)

EXPERIENCE

Data Engineer CognitiveLab

04/2024 - Present

Online Part Time

My Contributions

- Managed ingestion and preprocessing of 20+ data sources for Vector DB compatibility.
- Implemented effective data chunking techniques, resulting in a 20% reduction in database query response time, enhancing system performance and scalability.
- Created a streamlined data preparation pipeline, reducing data preparation time by 60% and improving overall team efficiency.

Research Intern and Team Lead STARC'23

05/2023 - 07/2023

Pes University, Bengaluru

Tasks

- Led the development of the Fast Bowler Injury Prediction And Rectification System, utilizing Deep learning algorithms to analyze fast bowler action forms and predict potential injuries with 90% accuracy. [🔗](#)
- Integrated a similar action retrieval system, allowing users to receive visual feedback on correcting their bowling form, resulting in 40% improvement in form correction effectiveness.

Tutor

Urban Pro

01/2023 - 04/2024

Online Part Time

Achievements

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

EDUCATION

B Tech C.S.E PES UNIVERSITY

09/2021 - Present

GPA : 8.56

12th ICSE Boards Rajendra Vidyalaya

03/2019 - 05/2021

92%

SKILLS

Data Structures

Algorithms

Python

C/C++

Java

Javascript

Data Science

Data Analytics

AI/ML

Node

React

NextJs

MySQL

MongoDB

Quick Learner

Empathy

Networking

PERSONAL PROJECTS

Hackathon Project : Product Review Feature Analysis: Unveiling User Preferences

- Conducted in-depth **analysis of product reviews** to identify and extract user-preferred features, like UI design, functionality, and other notable aspects.

Small Dataset Image Retrieval System [🔗](#)

- Developed an **Image retrieval system** employing **object detection** for precise matching even within **small datasets**.

Hackathon Project : Elixir [🔗](#)

- Police assistance drone** equipped with object detection, tracking, and pepper spray delivery capabilities.

Snake Game using Reinforcement Learning [🔗](#)

- Developed **Python-based Snake Game with AI** using PyTorch.
- Implemented reinforcement learning techniques including Q-learning.

CERTIFICATES AND PUBLICATIONS

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.

AWS Educate Certificates [🔗](#)

50 Days 2023/2024 badge Leetcode [🔗](#)

Fast Bowler Injury Prediction And Rectification System (08/2024)

ICT4SD 2024 – Goa, India

Small Dataset Image Retrieval System

In Progress