

SARANG DEB SAHA

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EXPERIENCE

Rally Vision | Data Scientist

Bengaluru | August 2024 - Present

- Developed and fine-tuned deep learning models (TrackNet) for real-time ball tracking in squash, utilizing Python, TensorFlow, PyTorch and OpenCV.
- Processed match footage using video analytics tools like FFmpeg, providing key insights into player behavior and match dynamics.
- Deployed models in Docker environments and collaborated with teams to integrate tracking data into broadcasting systems, enhancing real-time viewer engagement.

CiSTUP, IISc (Indian Institute of Science) | Project Intern

Bengaluru | Jan 2024 - July 2024

Worked on analyzing and exploring road safety, CCTV video data, violation detection and mobility situations in Bengaluru, collaborating with the Bengaluru City Traffic Police (BTP) under the mentorship of Dr. Vijay Kovvali contributing to the project of 'Road Safety'.

Quidich Innovation Labs | Data Science Intern

Mumbai | Oct 2023 - April 2024

- Worked on the development of a recommendation engine to automate the storyline generation for cricket commentators.
- Worked on the testing and benchmarking of the company's real-time player tracker solution for QT and QStat and **improved its efficiency by 20%**.
- Helped in developing the company's new Object-detection models including YOLO for tracking of Cricket ball using numerous highlight videos for real-time detection and tracking for QT (Quidich Tracker).

PROJECTS / OPEN-SOURCE

Cognizance of the Premier League | Link

Python, Colab, seaborn, matplotlib, scikit-learn

Conducted exploratory data analysis and predictive modeling in football analytics, focusing on Premier League teams (1993-2023) and the transfer market (1993-2021). Analyzed referees from the 2021/22 season and developed a predictive model to determine optimal player positions using Football Manager 2017 data.

Evidence vs Eminence | Link

Python, Tableau

Explored the IPL auction market using statistical analysis and machine learning models to uncover insights into player valuation and predict auction prices. Analyzed factors like player performance, age, and captaincy experience, using regression models to guide stakeholder decisions.

The Wheel Deal | Link

HTML, CSS, Js, PHP, MySQL

Developed a Car rental and management system with customer and admin panels for a local car rental agency. Includes a database with 5 tables and CRUD operations. Thus it lets the admin, edit and remove car listings and client requests.

RESEARCH

Exploring Anomaly Detection Techniques for Crime Detection | Link

Python, CV Models

Conducted research on detecting anomalous events with criminal intent using deep learning, specifically Convolutional Neural Networks. Employed pre-trained models like VGG19, DenseNet121, ResNet50, and MobileNetV2 to classify criminal behavior into 14 categories. Research accepted for presentation at ICRTCIS 2024 and publication in the Springer Book Series "Algorithms of Intelligent Systems."

SKILLS

Programming Languages:	Python, C++, C
Libraries/Frameworks:	Matplotlib, Seaborn, PyTorch, Tensorflow, Spacy, OpenCV, Scikit-learn, Amazon AWS, docker
Tools / Platforms:	HTML5, CSS, Javascript, PHP, Unreal Engine, GCP, Tableau, CleverTap
Databases:	MySQL

EDUCATION

The LNM Institute of Information Technology

Jaipur, Rajasthan

B.Tech in Computer Science and Engineering

November 2020 - July 2024

CGPA: 7.5

Delhi Public School

Bokaro, Jharkhand

AISSCE Physics, Chemistry, Maths, English

April 2019 - June 2020

Percentage: 96%