ADITYA SRIRAM

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Bangalore - 560102,
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EDUCATION

PSG College of Technology, Anna University
Bachelor of Engineering in Computer Science and Engineering

Coimbatore,India
July 2019 - May 2023

- CGPA: 9.1/10.00 Department(CSE)
- Coursework: Data Structures, Advanced Data Structures, Machine Learning, Operating Systems, Distributed Computing, Compiler Design, Database Management, Software Engineering, Embedded Systems

PROJECTS

Seat Management System for an Office Space
|HTML, CSS, JavaScript, Django| code |

Feb 2022 - May2022

- Worked together with a team of 5 members to help digitalize the process of seat allocation for a given office space.
- Used concepts of web design and python programming to help ease the process of seat allocation for a company by automating the process.

Yogashaala |HTML, CSS, JavaScript, Django| code |

July 2021 - Nov 2022

- Spearheaded a team of 5 to design and develop a website for a company providing yoga services in Oman.
- Used concepts of web design to help build a website that acted as a Point of Sales between the company and customers who were interested in taking up the services of the company,

PSG Meet Application |JavaScript, HTML, CSS| code |

Sept 2020 - Jan 2021

- Worked together with a team of 5 to develop a meet application using webRTC protocols.
- Used the concepts of web design to develop the front end interface of the meet application and utilized architectures present in computer networks to develop the backend.

Ziti Pizzeria Management System |Java| code |

July 2020 - Sept 2020

- Worked together with a team of 5 to develop a pizza ordering system. .
- Used the concepts of Object Oriented Programming and Database Management to design the system.
- Utilized java to develop the system.

Attendance Management System |Java| code |

Feb 2020 - May2020

- Spearheaded a team of 5 to develop an attendance management system. .
- Used the concepts of Object Oriented Programming and Database Management to design the system.
- Utilized java to develop the system.

RESEARCH EXPERIENCE

Speed Governor using Computer Vision |Python|
July 2022 - Present

- Spearheading a team of 5 to design a vehicle speed governing system using Computer Vision.
- Using Deep Learning Models to improve the low light image quality to detect driver drowsiness or distraction and accordingly reduce the speed of the vehicle.
- By going for models that improve the low light image quality, hope it improves the accuracy of the model under bad lighting environment and thus reduce the speed of the vehicle more efficiently.

Vehicle Analyzer using Machine Learning |Python|
August 2022 - Present

- Working in a team of 5 along with IBM, to design a vehicle analyzer using machine learning.
- Using machine learning algorithms in classification and regression to help analyze the performance of the vehicle in different conditions.

Contour Detection and Hierarchical Image Segmentation |Python,Cython,C++|
Dec 2021 - Present

- Worked together with 3 computer scientists to overcome two fundamental problems associated in computer vision.
- Used a deep learning model to form closed contours and segment the image on a global scale of the image.
- By going for a deep learning model that takes global parameters, helped improve the quality of the contour as well as reduce the time taken for the code to execute.

WORK EXPERIENCE

Samsung Research Institute
Project Intern
May 2021 - Nov 2021

- Worked as a part of the 'Samsung PRISM' program, with the Samsung Research Institute, Bangalore.
- Developed a web based P2P video conferencing application.
- Helped reduce the bandwidth of the video distribution application by 5%.
- Received a 'Certificate of Excellence' for the work done in reducing the bandwidth of the application.

TECHNINCAL SKILLS

- **Programming Languages:** Python, Java, C, HTML, CSS, JavaScript
- **Platform Frameworks and Tools:** Git, ReactJS, Xcode, Android Studio, Netbeans
- **Machine Learning Frameworks:** OpenCV, scikit-learn

AWARDS & ACHIEVEMENTS

- Joint Secretary of the Computer Science Engineering Association at PSG College of Technology, responsible for hosting events such as alumni seminars and technical contests July 2020 - June 2021.
- Active participant in various competitive programming contests.
- Part of the Karnataka State Basketball Team and the college basketball team of PSG College of Technology.
- Won the district level basketball tournament while being an active member of the college team of PSG College of Technology