

# ADITYA SRIRAM

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## EDUCATION

PSG College of Technology, Anna University

Coimbatore, India

Bachelor of Engineering in Computer Science and Engineering

July 2019 - May 2023

- CGPA: 8.53/10.00 Department(CSE)
- Coursework: Data Structures, Advanced Data Structures, Machine Learning, Operating Systems, Distributed Computing, Compiler Design, Database Management, Software Engineering, Embedded Systems

## TECHNICAL 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

## PROJECTS

Seat Management System for an Office Space

Feb 2022 - May 2022

|HTML, CSS, JavaScript, Django| [code](#) |

- 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

- Lead 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 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.

## RESEARCH EXPERIENCE

### Drowsiness Detection System|Python,C,C++|

July 2022 - Nov 2022

- Lead a team of 5 to design a Drowsiness Detection System using Machine Learning.
- Used super-resolution techniques to improve the resolution of the video and a multi-branch low-light enhancement technique to improve the lighting condition of the video being fed as an input to the Drowsiness Detection Model.
- Using the enhanced video as the input helps improve the performance and accuracy of the Drowsiness Detection Algorithm.

### Vehicle Performance Analyzer using Machine Learning |Python| [code](#) |

August 2022 - Nov 2022

- Worked in a team of 4 as part of the IBM Professional Readiness for Innovation Employability and Entrepreneurship program.
- Developed a machine learning based vehicle performance analyzer.
- Used the random forest algorithm to help analyze and classify the performance based on the vehicle information given.

### Contour Detection and Hierarchical Image Segmentation

Dec 2021 - Present

|Python,Cython,C++|

- Working together with 2 computer scientists to overcome two fundamental problems associated with computer vision.
- The spectral method currently being used to form the contours and segment the image is computationally expensive
- Exploring the use of autoencoders instead of the spectral method to help produce better cuts.

## WORK EXPERIENCE

### Samsung Research Institute

May 2021 - Nov 2021

#### Project Intern

- 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.

## AWARDS & ACHIEVEMENTS

- Joint Secretary of the Computer Science Engineering Association at PSG College of Technology from July 2020 - June 2021, responsible for hosting events such as alumni seminars and technical contests.
- Active participant and winner in various competitive programming contests.
- Awarded a certificate for completing the TCS iON Career Edge Course.
- Was part of the Karnataka State Basketball Team.
- Captained 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.