

# SHARATH PAI

FULL STACK DEVELOPER & ML ENGINEER

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Degree	Institute	Year	CPI/%
B.Tech (ECE)	D.J. Sanghvi College of Engineering	2020-2024	7.6
HSC	Patkar Varde College	2018-2020	83.23
SSC	Dr. S. Radhakrishnan Vidyalaya	2006-2018	90.80

## SUMMARY

An astute learner who is passionate about building websites and analysing data, I am purposeful behind my work and looking forward for collaborations in open source and opportunities that would help in my growth as well as getting along in a team of skilled individuals.

## PROFESSIONAL EXPERIENCE

**Web Development Intern** | Suvidha Foundation Sep 2023 - Oct 2023

- Working on a healthcare website project where people can monitor their health and book a doctor's appointment accordingly.
- It is a **MERN Stack** Website in which I followed the Node MVC Architecture to create and integrate the Frontend and Backend of the website.

## TECHNICAL SKILLS

- Programming:** C, JavaScript, R, Solidity, SQL
- Development:** Bootstrap, ExpressJS, Handlebars, NodeJS, ReactJS
- Design:** Figma, Illustrator, Photoshop, Wordpress
- Tools:** Git, GitHub, MySQL, VSCode

## PROJECTS

**Healthcare App** | MongoDB, ExpressJS, ReactJS, NodeJS Ongoing  
*Suvidha Foundation, Nagpur* (Expected by Oct '23)

- Working on a healthcare app which allows the users to remotely monitor their health.
- I used **Node MVC Architecture** for organizing the Frontend and the Backend part.
- After checking their health, the users can book an appointment of doctor for which I used an **API** which provides the list of nearest available doctors.

**Science Mission Website** | ExpressJS, Handlebars Ongoing  
*Science Mission, Dallas, USA* (Expected by Mar '24)

- Creating a freelance website that contains several articles related to science along with the videos as remedy.
- Each article has its own category and the user can filter out the articles based on their choice of category.
- I am creating the **backend** routes using **ExpressJS** and using the **Handlebars** template engine for the design.

**Blogpage** | ExpressJS, Handlebars Sep 2023  
*Self Project*

- Created a blogpage in which showcase my written blogs.
- I am thinking of converting this website to a **dynamic website** in which the user can create and publish their own blogs in which the data can be dynamically passed through a database, preferably MongoDB.

**Swift UnderGrads Website** | ReactJS Jul 2023  
*Swift UnderGrads*

- Developed a fully responsive **Frontend** educational website for our community which helps students in getting their desired study material.
- It is a static website and further I am planning to create a portal for various events conducted by the team and a **blockchain** powered **payment gateway** for secure transactions.

*Self Project*

- In the given dataset, we determine the relation of house price with other independent variables.
- The data from the dataset is preprocessed to remove outliers and impute missing variables, then we use **Regression algorithms** to determine the relation and obtain its mathematical equation.
- The dataset used here is **Boston Housing Dataset** which is available on Kaggle.

## KEY COURSES UNDERTAKEN

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### Mathematics and Statistics

- Calculus, Probability and Random Processes, Basics of Statistics, Data Preprocessing for Regression Analysis, Regression Models, Classification Models, Support Vector Machines, Ensemble Techniques, Artificial Neural Networks

### Computer Science

- Structured Programming Approach, Data Structures and Algorithms, Operating Systems, Computer Networks

\* to be completed in Nov '19

## POSITIONS OF RESPONSIBILITY

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### Founder & Tech Lead

Feb 2022 - Present

*Swift UnderGrads*

- A community running on telegram, we aim to help **MHT-CET aspirants** by guiding them regarding further admission process.
- I lead a team of 12 members, all belonging to different areas in Maharashtra. My job is to mentor aspirants and look after the social handles.
- We conduct various **webinars** to help students with their studies and make them clear about the admission process and further career opportunities. Till now we have helped **1000+** students in their journey.
- I also created a website which helps students to get their desired study materials.

### Head of Public Relations & Social Media

Nov 2021 - Apr 2023

*DJSCE IETE*

### Head of Graphics

Mar 2022 - Oct 2022

*DJS eXpress*

## PUBLICATIONS

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### Audio Source Separation as applied to Vocals-Accompaniment Separation

Mar 2022

*DJS Strike*

ISBN: 978-93-5578-944-0

- The objective of this paper is to present a system for extracting the vocals from any track composed of vocals, instruments and computerized sound effects.
- The training dataset is composed of the tracks for the composite 'mix' and the accompanying vocals.
- The output audio is obtained by **postprocessing** this spectrogram using the inverse short-time **Fourier transform** amongst other techniques.

## ACHIEVEMENTS & CERTIFICATIONS

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- Runner Up in **DJS Strike** Innovative Project Development 2022 Competition.
- Finalist in Pixel Paranoia **UI/UX** Hackathon.
- Completed 30 Days of **Google Cloud**.
- Certification in 30 Days of **Solidity** Challenge.
- 5 stars in **Hackerrank C**.