

# Abhilash S Hathwar

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## EDUCATION

**JSS Science and Technology University Mysuru**

Dec 2020 - June 2024

*Bachelor of Science in Computer Science*

*Current GPA: 9.75/10*

**Indian Institute of Technology Madras (Online Diploma)**

Jan 2021 - June 2024

*Diploma in Data Science and Programming*

*GPA: 7.3/10*

## RELEVANT COURSEWORK

**Courses:** Data Structures and Algorithms, Object Oriented Programming, Software Engineering, Computer Networks, Database Management Systems, Operating Systems, Computer Organization and Architecture, Artificial Intelligence and Machine Learning, Cloud Computing and Security, Compilers, Linear Algebra.

## SKILLS

**Technologies:** C/C++, Java, Python, JavaScript, HTML/CSS, ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, Linux

**Tools:** Git/GitHub, Docker, YAML, Openstack, AWS

## PROJECTS

**Earthquake Resilient Structure Analysis** | *Tensorflow, Keras, Flask, ReactJS, OpenCV*

April 2023

- Part of a team that developed the Earthquake Resilient Structure Analysis (ERSA) app that analyzes the earthquake resistance of buildings using deep learning.
- I was responsible for the back-end development of the app using Flask. I worked closely with my teammates to integrate their contributions and ensure that the app functioned smoothly
- The app uses a CNN deep learning model developed by my fellow teammate to predict the earthquake resistance of buildings based on the image of the building. This allowed us to provide a fast and accurate analysis of the building's safety.
- With the help of experienced civil engineer professors, we developed an extensive analysis functionality that provides users with detailed reports on the safety of their buildings. This can help users to earthquake-proof their buildings and prevent potential disasters

**Surface Defects Detection in Semiconductors using Deep Learning** | *Tensorflow, Python, Keras*

June 2023

- Researched and implemented cutting-edge deep learning techniques for accurate classification of surface defects in semiconductor images.
- Contributed to the successful training and validation of the deep learning model using TensorFlow and Keras frameworks.
- Demonstrated the project's impact by improving defect classification accuracy and potential applications in semiconductor manufacturing.

**Travel Guru** | *ReactJS, Javascript, REST API's, Google Map API*

Sep 2022

- Designed and developed a travel advisor web application that showcases restaurants, hotels, and tourist attractions in the surrounding area
- Utilized React and Trip Advisor API to retrieve data such as restaurant names, pricing, ratings, addresses, and phone numbers. Incorporated Google Maps API to display the location of the restaurants on the screen.
- Included functionality to filter places based on rating and search for specific places.

## EXPERIENCE

**Western Digital (SanDisk India)** | *Summer Intern*

May 2023 - July 2023

- Successfully developed an automation tool for the maintenance of the internal company database using Python and related libraries.
- Part of a collaborative team that reduced the number of bugs and automated tasks for test developers.
- Contributed to the enhancement of test processes and efficiency through automation.

## ACTIVITIES

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### Google Developers Student Club JSS STU | *Web Development Lead*

Sep 2022 - Present

- Assisted in organizing "Hactober Fest 2022" to encourage open-source contributions from the community.
- Developed a 'chat application' that received more than 10 open-source contributions from students of our college, as well as developers from across the country and around the world.
- Conducted a comprehensive workshop on the fundamentals of machine learning and deep learning as a part of GDSC's 'Explore ML and DL' workshop, where I served as one of the lead instructors and taught a group of 50+ participants about supervised and unsupervised learning, regression, and classification algorithms.

### The Editorial Board | *Editor*

April 2021 - Present

- Successfully contributed as an Editor in the Art Section of the Literature Club's Editorial Board from past 3 years.
- Skillfully curated and refined artistic content for the university magazine, contributing to its recognition as the Best Magazine in the university.
- Led event coordination for the university's annual literary fest "SHABD" for 3 years, organizing captivating art competitions and engaging literary events and exhibited strong communication skills by serving as a proficient quiz master and hosting challenging quizzes, enhancing participants' knowledge and enjoyment.

## ACHIEVEMENTS

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### HACKMITTEN (24 hour hackathon) | *MIT Thandavpura, India*

27th and 28th April 2023

- Part of a winning team of four that developed a language-learning tool leveraging third-party APIs such as The FluentMe and OpenAI's GPT-3 model.
- Contributed to the development of the tool's back-end using Flask, ensuring seamless integration of the tool's functionalities.

### PRAYOG (8 hour hackathon) | *VVCE Mysore, India*

3rd May 2023

- Contributed to the development of a healthcare app with features such as diabetes detection in pregnant women using decision tree, arthritis detection using CNN, yoga pose estimation using openCV, and a chatbot using OpenAI's GPT-3 model
- Collaborated with a team of four to develop the app and emerged as winners of the 8-hour hackathon
- Demonstrated proficiency in back-end development using Flask, ensuring seamless integration of the app's functionalities.

## SOFT SKILLS

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Time management, Communication, Adaptability, Problem solving, Teamwork, Creativity, Leadership, Interpersonal skills, Work ethic and Attention to detail