

# AADISH D SOMAYAJI

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## EDUCATION

### Atria Institute of Technology

Bachelor of Engineering in Computer Science - Current CGPA: 8.8

2022 – Present

### Sri Sri Ravishankar Vidya Mandir

Pre-University in Computer Science - 87.05%

2020 - 2021

SSLC - 84.9%

2020

## SKILLS

Programming Languages : C, Python, JAVA, HTML, CSS, JavaScript( learning)

Soft Skills : Communication, Teamwork, Problem Solving, Decision making, Leadership

## PROJECTS

- Developed a platform for AI-powered music creation that uses RNN for machine learning, allowing users to mix and compose original music from a variety of genres, including pop, jazz, rock, and classical. Future improvements include collaborative music production, for which a research paper was also written, and mood-based generation.
- Designed sensor-based specs for the visually impaired using Arduino Uno and an ultrasonic sensor, enabling proximity-based beeping for obstacle awareness. The system detects objects at specific distances and activates a connected sound device to provide audible alerts.
- Developed a smart dustbin using Arduino Uno and servo motors, featuring automated lid control that opens when waste is detected within a certain distance and closes when no obstacle is present, ensuring hands-free and hygienic disposal.
- Developed a game system using Python with Tkinter for GUI, featuring user authentication and classic games like Minesweeper, PvP Tic-Tac-Toe, and AI-based Tic-Tac-Toe, utilizing SQL for a secure database.
- Developed a personal portfolio site with React and Netlify, highlighting projects, contact info, and deployment skills in a clean, responsive layout. [www.aadishds.me](http://www.aadishds.me)
- Built and deployed a chatbot web app using React and Botpress, showcasing frontend development, state management, and third-party API integration. <https://chatbot-aadish.netlify.app/>
- Developed "ShopFinder" — a location-based React Native app (using Expo) that helps users find nearby shops and manage favourites, with Firebase App Distribution for beta testing.

## PRESENTATIONS

- Presented 'Melody Mixer: Novel Music Generation by Mixing Styles with Variational Autoencoders' at the International Conference on Computing for Sustainability and Intelligent Future (IEEE COMPSIF 2025) on March 21-22, 2025.
- Presented technical seminars on Sonar technology, BioLeaf analysis, and Photovoltaic (PV) cell innovations, showcasing applications and advancements in each field.
- Delivered a data-driven presentation on the optimal social media platforms for engagement, analyzing likes, comments, and shares to identify the most effective channels for posting.
- Presented on applications of data structures for efficient data sorting, highlighting algorithms to optimize performance and storage.

## CERTIFICATION

- Earned NPTEL certification in "Introduction to Programming in C", covering fundamental programming concepts, syntax, and problem-solving techniques in C language.
- Earned NPTEL certification in "Programming, Data Structures, and Algorithms Using Python", focusing on core programming principles, efficient data handling, and algorithmic problem-solving.
- Completed NPTEL certification in "Design and Analysis of Algorithms", covering algorithm design techniques, complexity analysis, and optimization strategies.
- Received a certificate of participating in "Celebrating Tech @Bangalore DC" held at Infosys Bangalore on October 23rd, 2024 where we presented our project idea named "The Wild Sense".
- Received a certificate of participation in "NVIDIA GeForce Day" event held at Bangalore on July 27th, 2023 for participating in multiple workshops held during the event.
- Received a course completion certificate for the course "C Programming 101" on November 24th, 2023 organized by Infosys.

- Received third place at the event “Rapid Quiz” held at Atria Institute of Technology on the occasion of National Science day between February 23rd and 27th, 2023.

## **PUBLICATIONS**

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- *Melody Mixer: Novel Music Generation by Mixing Styles with Variational Autoencoders* (Paper ID: 354). Published in the **Proceedings of the 2025 IEEE International Conference on Computing for Sustainability and Intelligent Future (COMP-SIF)**.

## **POSITION AND RESPONSIBILITIES**

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- TEDxAtriaIT – Hospitality Lead, responsible for connecting with speakers and organizing all aspects of the event.
- Organiser for Treasure Hunt - Organized a college-wide Treasure Hunt with a team of four, incorporating technical and tricky quizzes as challenges throughout the event.