

Sathwik K | NA20B059



INDIAN INSTITUTE OF TECHNOLOGY, MADRAS

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560013

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	CGPA / %	Year of completion
B. Tech in Naval Architecture and Ocean Engineering	Indian Institute of Technology Madras	8.92/10	2024 (Expected)
XII	Base PU College, Bangalore	92.00%	2019
X	VVS Sardar Patel High School, Bangalore	99.68%	2017
Scholastic Achievements	<ul style="list-style-type: none">Secured a rank in the top 3.75% (out of 0.2 million candidates) in JEE Advanced.Secured gold medal in International Mathematics Olympiad conducted by SOF in schoolSecured gold medal in NIE Mathematics exam conducted by BYJU's in school		2020 2016 2017

COURSES AND SKILLS

Coursework	OE1100: Scientific computing with MATLAB and Excel.	MA110: Function of Several Variables	MA1102: Series and Matrices
	Customer and Business Analytics (Coursera)	Machine Learning and Data Analytics with Python (Udemy)	App Development with Java
Skills	Languages: Python, C++		Web Application Development: HTML
	3D modeling/animation software: Fusion 360		Data Analytics tools: MS Excel, Python libraries (Numpy, Pandas, Matplotlib), Adobe Analytics
	Intro to Image Processing: OpenCV Python		Other: Microsoft Office, Git, Figma
	Machine Learning: Supervised, Unsupervised and Reinforcement Learning algorithms using libraries like NumPy, Matplotlib and Pandas.		MATLAB: Scientific and numerical computing of matrices and arrays, solving differential equations, Image processing

PROJECTS

Autonomous Surface Vehicle-professor project ([github ASV](#))

Project Member	<ul style="list-style-type: none">On the Software team for the Autonomous Surface Vehicle that is being built and tested in the Wave Basin in IIT Madras.Usage of python libraries Numpy, Pandas and Matplotlib for segregating the data into tables and plotting it. Avoiding obstacles and reaching destination.	September 2021 - Present
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Robotic Cars Grid Competition([github grid](#))

Team Member	<ul style="list-style-type: none">Built 4 robotic cars with ESP 32 chip, L293 motor drivers and other componentsPython and Arduino code for the four robot cars to run in sequence (like a relay race) autonomously once started i.e., no remote controlAttached QR codes on top of the cars, used OpenCV libraries to identify the QR codes and run the cars by accessing their position from a fixed camera	August 2021 – Oct 3 rd , 2021
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Mini-Project COVID-19

Individual Project	<ul style="list-style-type: none">Coronavirus infection probability of a person using Machine Learning Algorithms	Sept 2021
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Fake News detection

Individual Project	<ul style="list-style-type: none">Identifying and segregating fake news using clustering and Machine Learning	Sept 2021
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POSITIONS OF RESPONSIBILITY

Development and Association | Entrepreneurship Cell, IIT Madras

Executive	<ul style="list-style-type: none">Quality ManagementAssociation Building- with startup CEOs and eminent professorsEvent planning, execution and conducting dry runs.Professional Email writing, scheduling itinerary etc.	May 2021 – Present
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Product Design Club | CFI, IIT Madras

Project Member	<ul style="list-style-type: none">Developing an Android mobile application “Acad Habitify”Designing UI of the application, the backend with Java	August 2021-Present
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Ocean Engineering Newsletter | Wavez, IIT Madras

Content and Research team	<ul style="list-style-type: none"> Researching on the given topic to find relevant content from various sources in order to be printed in the Newsletter 	
EXTRACURRICULAR ACTIVITIES		
Competitions	<ul style="list-style-type: none"> Flipkart Grid 2020 All India Competition in the Robot relay race competition Adobe Analytics Challenge 	Aug 2021-Oct 2021 Sept2021- Oct 2021
Sports	<ul style="list-style-type: none"> Represented the school team in district level athletics 100m race and 4x100m relay Part of the school cricket team 	2017
Other Interests	<ul style="list-style-type: none"> Skilled in playing Tabla. Completed Junior exam and a senior-equivalent exam 	