



EDUCATION			
Program	Institution	%/CGPA	Year
M.S(Ocean Engineering)	Indian Institute of Technology, Madras	7.5	2022
M.Tech (Coastal Management)	CEG, Anna University	7.5	2016
B.E(Civil engineering)	Mamallan Institute of Technology, TN	6.9	2014
XII	Sri Vijay Vidyalaya Higher secondary school, TN	8.4	2010
X	Government higher secondary school, Dharmapuri TN	8.6	2008
<ul style="list-style-type: none"><li>Forecasted Gaja cyclone-induced storm surge, as details updated every hour to Tamilnadu Government for mitigation measures</li><li>Handled Indian major ports and international port projects</li></ul>			
RELEVANT COURSE WORK AND SKILLS			
1. Coastal engineering		4. Foundation for data science	
2. Wave hydrodynamics		5. Basic statistics and probability	
3. Numerical Techniques for ocean engineering		6. Machine learning	
Programming Languages	Python (NumPy, Pandas, matplotlib, Sklearn), MySQL, Matlab, Fortran		
Software	Delft3D (flow & Wave), Telemac2D &3D, SISYPHE, AdCirc		
WORK EXPERIENCE			
Project officer (Nov '2017 – Nov '2020) (Apr '2021 – Nov '2021)	Department of Ocean Engineering, Indian Institute of Technology		
	<ul style="list-style-type: none"><li>Compound extreme events induced flooding pattern in Ennore estuary such as high tide, storm surge, and extreme river discharge</li><li>Customization of 3D hydrodynamic and siltation tool for understanding the suspension details in the water column for the critical location of erosion and deposition</li><li>Study of siltation pattern due to the construction of berthing structures at Port Louis, Mauritius, Kulthusfusi, Maldives</li><li>Dredge disposal study at Baypore port, Kerala</li><li>Identification of potential tidal energy harvesting zones along the Indian Coast</li><li>Design of Intake and Outfall, Simhadhri Super Thermal Power Project, Vishakhapatnam</li></ul>		
Project Assistant II (Feb '2017-Nov '2017)	National center for sustainable coastal Management (NCSCM), Anna university		
	<ul style="list-style-type: none"><li>Conducting the hydrodynamic study around the Sagar Island</li><li>Identification of potential Mangroves growing regions at Adani Port Mundra, Gujarat</li></ul>		
WORK EXPERIENCE IN DATA SCIENCE(*-Ongoing)			
Research Project	Flood forecasting using Machine learning		
	<ul style="list-style-type: none"><li>Historical Rainfall and flood details collected and it has been organized using the NumPy library in python</li><li>Modeled trained with the past data and logistic regression supervised machined learning method used to customize the flood forecast</li><li>Working in image processing for overlay flood level</li></ul>		
CO-CURRICULAR ACTIVITIES			
During UG & PG	<ul style="list-style-type: none"><li>Intern at the National Institute of Ocean Technology (2016)</li><li>The training course on “Instrument and Methods for Coastal Ocean Monitoring” organized by NCCR (2016) – learned to use ADCP, Handheld GPS, Total Station</li><li>Intern in L&amp;T Construction Pvt Ltd (2014) – Multi-stored monolithic building, R.A Puram Project, Chennai</li><li>Intern in Public Work Department (TN PWD), Chennai (2013) – monitored the renovation of the MGR memorial structure</li></ul>		
	Publication	Journal of Environmental monitoring and assessment: Tamilselvan Jayabalan <sup>1</sup> , Murali kantharaj <sup>2</sup> , Sannasi Annamalaisamy Sannasiraj <sup>3</sup> , Vallam Sundar <sup>4</sup> , “Evaluation and mitigation of tidal prism and inundation around a bar build estuary – a case study” (Under review)	
EXTRA-CURRICULAR ACTIVITIES			
Social	<ul style="list-style-type: none"><li>Involved in many social activities through NSS Camp for 4 years</li><li>participated in the Chennai Science City Festival as a representative of NCSCM.</li></ul>		
Sports	<ul style="list-style-type: none"><li>Zonal level cricket player in Tamil Nadu Cricket Association</li></ul>		