NishantRodrigues

education

contact	education			
E3 Block2 Samhita Castle C V Raman Nagar Bangalore, Karnataka	2016–2020 BTech in Computer Science with Honours [9.2 CGPA] Vellore Institute of Technology, Vellore			
		5 Std XII CBSE [92.3%]	CMR National Public School, Bangalore	
India 560 093	research			
+91 99451 20209 nishantrodrigues97	2020	Archive-Based Swarms & Variation of Fitness-Distance-Ratio Particle Swarr policies that govern how an archive may be used in		
@gmail.com		Co-author: Dr. Chilukuri K. Mohan, Syracuse Univer		
O in M ®	2020	Developed an efficient CNN architecture to aid in the classification of Brain tumours		
programming ♥ Python		from MRI images of the brain. Co-authors: Dr. Sanjiban Sekhar Roy, Vellore Institu Y-h. Taguchi, Chuo University, Tokyo	ite of Technology, Vellore;	
R, Julia C, C++, Java	Accepted	Smart Lighting for Large Public Spaces Estimating the position and number of users based devices tracked using Wi-Fi sniffers to provide auto	omated lighting solutions.	
softwares	_	Co-author: Dr. H.Parveen Sultana, Vellore Institute		
♥ Vim Jupyter notebook Visual Studio Code RStudio	Current	Detection of COVID19 pneumonia from Chest X-ray imag Using Deep Learning to classify COVID19 pneumor in the screening of coronavirus patients. Guide: Dr. Sanjiban Sekhar Roy, Vellore Institute of	nia from chest X-ray images to aid	
tools	experie	experience		
GitHub, GitLab Google Cloud Platform, Amazon Web Services, Tableau, PowerBl	Current	Associate Data Scientist Responsible for developing and implementing pate Machine Learning approach that includes pipeline based on multiple metrics.		
Microsoft Office operating	2018-19	Data science Consultant Part of a team that supports the lead data scientist covering the areas of Image analytics, prediction, as		
systems ♥ Linux Windows	2018-19	Technical Contractor Responsible for creating technical documentation of conducting workshops for various student commundemo projects for customers.	agora.io work for the company,	
database SQL MongoDB	2018	Intern and Volunteer Worked on Data science, Web and database. Part of Project team, aimed to create and analyze metrics (KPIs) that provide insight into the quality and quantity.	and Key Performance Indicators	
Firebase languages	2016-18		ogle Developers Group (Student Chapter) developed innovative	
English fluency Hindi fluency		community working on other projects and events. (science, algorithms and machine learning		

awards talks

2020 **Workshop on Swarm Intelligence Algorithms** 2019 VIT. Vellore Presented paper (Archive-Based Swarms) as part of ACM's Genetic and Evolutionary Computation Conference 2020. **Special Achiever** In recognition of exemplary 2018 **Community Sessions** agora.io performance in Organized monthly community meetups on behalf of agora.io International events and 2018 **RTC Conference** Beijing, China meritorious academic Speaker at the Real-time Communication Conference. performance. 2017 Workshop on DSA Vellore Institute of Technology, Amravati 2018 Guest speaker on the topic of "Application of Data Structures and Algorithms in

Developer of the Year

Winner of RTC Conference in Beijing, China and presented with the title of "Developer of the Year"

> 2018 Angelhacks

1st - Angelhacks RTC Challenge

Winner of Agora.io RTC Challenge during Angelhacks Global Hackathon Series. Bangalore, conducted in

> 2018 Computer Society of India

1st - Codespace Placed 1st in Codespace hackathon in Devspace conducted by the Computer Society of India.

> 2018 IIT, Madras 1st - Juspay Hyper Hack

Placed 1st in Juspay Hyper Hack held during Shaastra2018

interest

Triathlon Swim, Bike, Run

Basketball Represented Bangalore Sporting at the State level

Cricket Represented Karnataka Institute of Cricket (KIOC)

Oil Pastels; Black and

White charcoal

Fine arts

projects Worked on 30 projects over the past 4 and a half years. The ones below have been selected to

Fall 2019 **Decision Support System**

Competitive Programming"

represent the kind of work done.

· A recommendation engine to assist users in selecting the most appropriate learning path of courses, based on features such as Holland code, past experience, educational background etc. Also includes a Cold start engine for new users.

iQGateway

agora.io

Vellore Institute of Technology, Vellore

Vellore Institute of Technology, Vellore

• Wrote the software to create a user-configurable dataset with various parameters and evaluated several approaches with a number of custom algorithms for path and learner based recommendations

partnership with agora.io Winter 2018 Sentiment Analysis %

· Sentiment analysis is an integral part of understanding human behavior and reactions to conversations. Tracking facial features and muscular reactions to predict a user's emotions in real-time over a live video call.

unSting % Vellore Institute of Technology, Vellore An international award-winning drone-based disaster management and recovery platform to track and help people affected by natural disasters.

 Drones collect information through a live stream that is sent to the servers in real time. Using the orientation of the drone and some assumed properties, the geolocation of the affected person is detected by mapping his location in the 2D image to a 3D coordinate using a custom-built algorithm. This data is plotted on a dashboard and sent to a PWA to assist on field search and rescue operations.

Winter 2017 OrphanCare %

SubConn %

Winter 2016 vityBot %

Fall 2018

Fall 2017

· A hackathon winning platform that empowers the public to help orphans and lost children and protect them from abuse. Sensitive data is secured by blockchain; FaceNet is used for facial feature recognition; and cloud computing for big data analytics. The platform can be integrated with You Only Look Once (YOLO) coupled

with the GPS location to track and find the children.

Vellore Institute of Technology, Vellore · A hackathon winning Progressive Web App (PWA) that uses blockchain and a propriety tracking algorithm to prevent system misuse in Producer-Consumer

supply chain of government-subsidized goods.

 The algorithm includes a unique forward pass that integrates the tokens with the blockchain to allow for a back propagation to detect and handle errors. The blockchain secures the item transactions and maintains the path followed by each item.

A personalized assistant (chatbot) for VIT students.

 Used the BeautifulSoup library to scrape the web and browser automation using Selenium. Set up a state transition model to answer basic queries that do not require Natural Language Processing. Trained and used an NLP model, specifically the NLU model created by RASA.