

# S. Santhosh Kumar

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## EDUCATION

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<b>Vellore Institute of Technology</b> Bachelor of Technology (B.Tech.) in Electronics and Communication (GPA: 7.20/10)	<b>Vellore, India</b> 2016 – 2020
<b>Chettinad Vidyashram</b> XII CBSE (Overall 82%)	<b>Chennai, India</b> 2014 – 2016
<b>The PSBB Millennium School</b> X CBSE (GPA 8.2)	<b>Chennai, India</b> 2005 – 2014

## WORK EXPERIENCE

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<b>QmaxTest Equipments Pvt Ltd</b> Intern	<b>Chennai, India</b> Jun. 2019 – Jul. 2019
<ul style="list-style-type: none"><li>• Developed real-time Embedded Software applications for PIC18F4550 microcontroller</li><li>• Worked on electronics hardware design and PCB Implementations on OrCAD EDA tools</li></ul>	
<b>Capgemini</b> Software Engineer / Analyst	<b>Bangalore, India</b> Sept. 2020 – Dec. 2020
<ul style="list-style-type: none"><li>• Training on Mainframe domain</li><li>• Fair expertise of CICS, JCL, VSAM, COBOL</li></ul>	

## RELEVANT SKILLS

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<b>Software Tools</b>	OrCad Capture CIS, MPLAB IDE, Cadence Virtuoso, µVision IDE – Keil, OptSim, COMSOL, MATLAB, MS Excel
<b>Programming</b>	Java, Python, C++, SQL, MAINFRAME, COBOL, CICS
<b>Languages</b>	English (fluent), French (beginner), Tamil (native)

## PROJECTS

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- **Photonic Crystal Fiber for Sensing Food Additives**  
A PCF DESIGNED FOR SENSING HARMFUL FOOD ADDITIVES SUCH AS SACCHARIN, SORBITOL AND BUTYL ACETATE
- **HALO (Haptic Assisted Location of Obstacles)**  
A SMARTPHONE BASED HAPTIC VISION SUBSTITUTION SYSTEM FOR THE BLIND
- **HUMIDITY SENSOR USING LCD DISPLAY**  
HUMIDITY SENSOR BASED ON 8051 MICROCONTROLLER
- **SPEECH RECOGNITION USING NEURAL NETWORK IN MATLAB**  
SPEECH RECOGNITION WHICH FORM THE BASIC FRAMEWORK, NAMELY LINEAR PREDICTIVE CODING, TRAINING OF THE FEED FORWARD NEURAL NETWORK USING BACK PROPAGATION AND THEN VOICE PREDICTION

## **PUBLICATIONS**

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**'Photonic Crystal Fiber for Sensing Food Additives'**, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075 (Online), Volume-9 Issue-8, June 2020, Page No. 545-551. <https://www.ijitee.org/download/volume-9-issue-8/>

## **CERTIFICATIONS**

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Certified in **'Machine Learning'**, an online non-credit course authorized by **Stanford University** and offered through **Coursera**

Certified in **'What is Data Science'**, an online non-credit course authorized by **IBM** and offered through **Coursera**

Certified in **'Tools for Data Science'**, an online non-credit course authorized by **IBM** and offered through **Coursera**

Certified in **'Programming for Everybody (Getting Started with Python)'**, an online non-credit course authorized by **University of Michigan** and offered through **Coursera**

Certified in **'Python Data Structures'**, an online non-credit course authorized by **University of Michigan** and offered through **Coursera**

## **BADGES**

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Data Science Orientation | **IBM** - This badge earner has a good understanding of why data science, artificial intelligence (AI) and machine learning are revolutionizing the way people do business and research around the world. They have general knowledge on what data science is today

## **EXTRA-CURRICULAR ACTIVITIES**

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2013	<b>Grade 5 Electronic Keyboard</b> , Level 2 Certificate in Graded Examination in Music Performance	Trinity College London
2018-2019	<b>Mr.TamilNadu</b> , Won several inter-district and state level bodybuilding competitions recognized by Indian Body Building & Fitness Federation, Ministry of Youth Affairs & Sports, Govt. of India, Sports Authority of India & Indian Olympic Association	Tamilnadu Amateur Body Building & Fitness Association