

RESUME

Ganeshan A

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Career Objective

To secure a job in the IT industry where I can utilize my knowledge for the organization's growth.

Profile

- A detail oriented and multitasking professional with exceptional coding techniques having Master of engineering degree in VLSI and Embedded Systems.
- Comprehensive knowledge of primary development languages for instance C, C++, JAVA, Python, Verilog and writing highly competent programs.
- In -depth understanding of object-oriented concepts / development
- Experience and knowledge of database schema design ,writing moderate to complex and optimized SQL queries. Knowledge of SQL server and MySQL.
- Well versed with Agile development.
- Deep understanding regarding Software Development and Testing Environments and considerable talent in achieving critical solutions.
- Knowledge of LINUX and UNIX.
- Able to understand and implement modern operating systems and great experience of their troubleshooting.
- Excellent in presenting and make people understand.

Personal Qualities

- Exceptional presentation skills.
- Strong leadership and patience full skills
- Exceptional Communication skills in written and verbal both.
- Able to give the best result in pressure situations.

Academia

- MTech in VLSI and Embedded Engineering, from Reva University Bangalore,
- 8.97 CGPA(2019-2021).
- PG-Diploma in Advance Computing course completed from Govt .CDAC Bangalore 2017.
- BE in Electronic and Communication Engineering, 56% from RTMNU 2015.
- H. S.S.C Santaji College, Nagpur with 62%.
- S.S.C Vimal Tai Tidke Convent with Distinction 78%.

Project

A System To Detect Fruit Freshness Using Machine Learning And IOT Approach.

Food spoilage is a big problem in today's culture, as consuming spoiled food can be dangerous to one's health. project detect rotten food at an early stage and improve accuracy to reduce food waste by using sensors and analyzing gases released by specific food products. When a microcontroller detects gases, it communicates data to the internet of things, enabling for the necessary action to be taken. In the food business, where food identification is currently done by hand, this offers a wide range of uses. We used machine learning and IoT, as well as sensors, to anticipate how frequently a food will spoil. This will increase supermarket competitiveness, resulting in more organic and natural products being sold. This project looks at how Machine Learning and IoT can be used to determine food freshness. The Wi-Fi module connects this IoT

system to the internet, and it begins reading data from the connected sensors. The system consists of a microprocessor, as well as electrical and biosensors such as a moisture sensor and an ethanol gas sensor. This technology detects moisture as well as harmful gases .A convolutional neural network (CNN), a sort of deep learning neural network, is a type of Deep Learning Neural Network. CNNs are a big step forward in image identification .They're most usually utilized to examine visual imagery, and they're regularly involved in picture categorization behind the scenes. We get an accuracy of 89% while using CNN in detecting ripen fruit and 96% in rotten fruit. The result of both CNN and sensors valve comparing that both the result it is declared as fresh or rotten.

Achievements

- MTECH Project on A System to Detect Fruit Freshness using Machine Learning and IOT .
- Presented paper in international conference 2021 of Reva University
- Paper published in Scopus International Journal TURMOCAT for MTech Final Year project.
- Paper Published on International Journal At IRJET.
- **Subject Taught** :Advanced Mathematics, CMOS VLSI design, Advanced Embedded ,Advanced Digital System, SOC Design, Design of Analog Real time Operating Systems, Low Power VLSI Design ,ASIC Design and Verification using System Verilog ,MEMS, FPGA based Embedded system Design, Introduction to Programming with MATLAB.
- Extra-Curricular Activities
- Take an active participation in blood donation camp.
- Part time work as software Testing.
- Part time work on SEO Digital Marketing.

CERTIFICATIONS

- Completed Software Testing Manual and Automation Testing from Software training institute.
- Course completed VLSI CAD Part I: Logic by university of Illinois
- Course completed VLSI CAD Part II: Layout by university of Illinois
- Course completed Introduction to Python by Michigan University.
- Course completed Introduction to ML by Duke University.
- Course completed Introduction to AI by IBM.
- Course completed on Computer Vision Basics from University at Buffalo, The State University of New York.

WORKSHOPS AND E-CERTIFICATE

- MASTER CLASS ON DATA ANALYTICS(30 DAYS) by Pantech solutions
- MASTER CLASS ON EMBEDDED SYSTEM DESIGN & IOT(30 DAYS) by Pantech solutions
- MASTER CLASS ON EV DESIGN USING MATLAB by Pantech solutions.
- MASTER CLASS ON RASPBERRY PI by Pantech solutions .
- MASTER CLASS ON MACHINE LEARNING by Pantech solutions.

Personal Profile:

Name: Ganeshan Arunachalam

Gender: Male

Marital status: Single

Nationality: Indian

Linguistic Ability: English, Hindi, Marathi, Tamil

Present Address: K Narayan Pur ,Bangalore,560077

Personal Strength: Leadership skills, Self-confidence, Optimism and Hard working.

Declaration: I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

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