

# GAYATHRI S

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## Skills

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### Technical Skills

Proficient in circuit analysis, design, and troubleshooting.  
Experience with microcontrollers and embedded systems programming.  
Skilled in using software tools like MATLAB, Scilab, LT Spice, and Arduino IDE.  
Knowledge of wireless communication protocols (e.g., Wi-Fi, Bluetooth, GSM) and signal processing techniques

### Testing and Debugging

Proficient in using lab equipment for testing and measurement, including oscilloscopes and function generators.  
Experience in fault diagnosis and debugging techniques.

### Communication and Interpersonal Skills

Excellent verbal and written communication proficiency.  
Ability to work collaboratively in a team environment.  
A strong presentation-giving capability for delivering technical information effectively.  
Excellent organizational leadership capabilities.

### Programming and Software Skills

Proficient in programming language Python.  
Familiarity with Verilog for digital circuit design.  
Knowledge of simulation tools such as SPICE and PSpice.  
Ability to use tools such as KiCAD and Easy EDA for schematic capture and PCB layout.

## Projects

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### VOICE CONTROLLED CAR

*Project based on Arduino and Microcontroller programming.*

- This project was developed in a way that the car is controlled by the control buttons in an Android app and by voice commands.
- An Android application with a microcontroller is used for required tasks. The connection between the Android app and the vehicle is facilitated with Bluetooth technology. Hc-05 Bluetooth module was used in the project.
- The robot is controlled by spoken commands of the user. The movement of the robot is facilitated by the microcontroller at the receiver side.
- The commands from the application are converted into digital signals by the Bluetooth RF transmitter for an appropriate range (about 1 meter) to the robot.
- The voice-controlling lessens human endeavors at spots or circumstances where human intercessions are troublesome.
- Such frameworks can be brought into utilization at spots, for example, businesses, military and guard, investigate purposes, and so forth.

### LEUKEMIA DETECTION USING CNN

*Project based on Deep Learning and Python*

- This project is designed to develop a Convolutional Neural Network (CNN) model for leukemia detection from blood smear images.
- The data collection is done by gathering a labelled dataset comprising normal and abnormal blood smear images.
- The CNN model is trained using these datasets, employing techniques like transfer learning.
- The model performance is assessed using matrix such as accuracy, precision and recall.
- The trained model is implemented in a user-friendly interface for practical leukemia detection

## Education

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2020 – 2024  
KOLLAM

**Bachelor of Technology in Electronics and Communication Engineering**  
*College of Engineering, Perumon*

## Professional Experience

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2022/11 – 2022/11  
PALAKKAD

### IN-PLANT TRAINING

*Indian Telephone Industries Limited (ITI LIMITED)*

- Got an opportunity to lead a team in the In-plant training consisting of 10 members, which was a good leadership experience.
- Collaborated with senior engineers to troubleshoot and resolve technical issues in production systems which would improve the production rate by at least 30%.
- Identified the products which the company was producing and their significance in the modern world.
- Utilized expert guidelines to understand the working of various large-scale production machinery performing various functions.
- Participated in quality control inspections to ensure compliance with industry standards to increase sale profit by 40% more than present.

### Departments in which the training was undergone:

- Manufacturing, PCB & Testing
- Customer Service Centre
- Computer Centre
- Quality Assurance
- Plant Civil & Mechanical
- Commercial, Sales & Billing
- Human Resource

## Organizations

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2022 – 2023

### IEEE - Institute of Electrical and Electronic Engineers

*Student Volunteer*

- Collaborated with a team of student volunteers to organize and execute various technical events and workshops.
- Assisted in the planning, promotion, and logistics management of IEEE events.

## Certificates

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**Analyze Data to Answer Questions**

by google

**Foundation: Data, Data, Everywhere**

by google

**Prepare Data for Exploration**

by google