



PREETHI.S

Electronics and Communication Engineering

E-mail: preethi.1902147@srec.ac.in

Mobile number: 6369991642

Linked-In: <https://www.linkedin.com/in/preethi-senthilkumar-453198205>



Education

Year	Degree/Certificate	Institute/School	CGPA/Percentage
2021-Present	B.E-ECE	Sri Ramakrishna Engineering College	8.53 (Current)
2017	SSLC	Bishop Francis Matriculation School	98%
2019	HSC	AVB Matric Higher Secondary School	82%

Areas of Interest

- Digital Logic Circuits
- Basics of Machine Learning
- Data Communication

Projects

- **Air Pollution Hotspot Detection Using Machine Learning** **March 2021**

(Project Mentor: Dr.S.Jayanthi Professor, Dept of ECE)

A Machine Learning Model was developed to detect air pollution hotspots to find the major polluting areas in the India .The model would Predict the output based on the datasets fed to the model and gives the AQI(Air Quality Index).It also compares the AQI before and after the pandemic.

Languages & Tools Used: Machine Learning, Linear Regression, Anaconda Navigator.

- **Development of micro-mobility based piezoelectric energy harvesting for smart city applications.** **(Ongoing)**

(Project Mentor: Dr.H.Mangalam Professor, Dept of ECE)

This is new renewable energy source, wherein the electricity is produced by impact created by the rotation of wheel by piezoelectricity. We use piezo electric board to convert kinetic energy into electric energy. Energy from the vibration force while cycling is used as the mechanical energy to generate AC in the Piezoelectric material and harvested; this is achieved through an exerted electromotive force by a magnet Configuration mounted to the wheel. .

Languages & Tools Used: Piezoelectric Plates, Arduino Uno

Smart Drainage Monitoring System and Clog Detection.

(project submitted during Tesslove semiconductors internship programme)

A system model to monitor the drainage system was developed with MSP430 microcontroller and while sensing parameters like temperature ,gas, water level ,where the resulting information is updated to authorized

platform using Iot.

Languages & Tools Used: MSP430, sensors, Embedded c

Early Glaucoma detection using transfer learning techniques

In this project, the use of transfer learning techniques and multiple pre-trained models, including VGG16, ResNet50, ResNet101, InceptionV3, Xception, MobileNetV2, and EfficientNetB7 are adopted for glaucoma detection using fundus images. accuracy of 99%

Technical Skills

- **Programming Languages:** C, basics of C++, Dbms(postgres).

Software Known: xilinx, Energia, Matlab

Certification and Key Courses Taken

- Undergone Internship in Tessolve Semiconductor Pvt.Ltd
- Undergone Machine Learning Boot camp conducted by ShapeAi.
- Undergone summer internship at the Zoho corporation. worked in dbms(postgres).
- Undergone Crash Course on Embedded C Programming in Udemy Platform.
- Undergone 1 credit course in conceptual networking.

Achievements

- Cleared Business English Certificate Examination (Preliminary) conducted by Cambridge University.
- Shortlisted for ideathon 2022 conducted in Sri Ramakrishna Engineering College.
- shortlisted in Smart India Hackathon 2021 conducted by MyGov.
- Shortlisted in techfest conducted by Sri Ramakrishna Engineering College.
- Participated in ICPC Algo Queen 2022-Girls Programming cup hosted by Amrita Vishwa Vidhyapeetham
- Participating in Jatayu season 2 conducted by Virtuosa.
- Participated in Techgium 2021 conducted by L&T Technologies.

Positions of Responsibility

- Core Team member of the Microsoft Learn Students Ambassadors Community .

Personal Details

Date of Birth : 27-08-2001
Languages Known : English, Tamil
Address : A/26 Sri Sakthi A enue ,Balaji Gardens,S.M Palayam,G.N.Mills(PO);
Coimbatore 29.

I solemnly declare that all the above information is correct to the best of my knowledge and belief.

Place: Coimbatore

Preethi.S
