

Punya A S

☎ 07592840673 ✉ punyasureshas19@gmail.com 📍 Trivandrum, Kerala 🌐 [Punya A S](#)

Profile

Motivated graduate engineer seeking an entry-level role in a reputable organization. Strong technical skills and team-oriented mindset to contribute to projects, solve challenges, and meet goals. Eager to work with experienced professionals in a dynamic environment that fosters growth. Aiming to leverage skills and experience to help the company while developing professionally.

Education

B Tech in Applied Electronics and Instrumentation , <i>LBS Institute of Technology for Women</i> GPA - 8.97	2019 – 2023 Thiruvananthapuram, Kerala, India
12th , <i>Sree Sarswathy Vidyalayam</i> Percentage - 77.8%	2017 – 2018 Thiruvananthapuram, Kerala, India
10th , <i>Sree Sarswathy Vidyalayam</i> GPA - 9.2	2015 – 2016 Thiruvananthapuram, Kerala, India

Skills

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|-----------------------------|---|---|---|
| - Plc Programming | - Process Control | - Matlab and Simulink | - Embedded System & Microcontroller |
| - Spice Simulation | - Electrical Circuit Design | - Signal Processing | - Instrumentation Calibration and Troubleshooting |
| - C & Java | - Python | - SQL, Machine Learning Algorithms, Scikit learning, Tensorflow | - Teamwork and Collaboration |
| - NumPy, Pandas, Matplotlib | - Analytical and problem solving skills | | |

Internship

Computer Hardware and Networking, *LBSTIW*

Additive Manufacturing Electronics and Control System, *Alphasys 3D Printing Solutions*

Machine Learning Using Python, *LBSITW*

- Data Collection, Data Cleaning, Feature Engineering, Algorithm Selection, Model Training, Model Evaluation, Model Optimization, Model, Deployment, Model Monitoring

Courses

Data Analysis with Python, *IBM*

- Introduction, Data Wrangling, Exploratory Data Analysis, Model Development, Working with Data in Python

Cybersecurity, *Tech Mahindra Foundation*

Projects

Lung Cancer Detection

2022 – 2023

- Used U-NET and Support Vector Machine (SVM) algorithms for the identification of lung cancer from low-noise CT images
- Improved image quality through median filtering
- CNN architecture is responsible for feature extraction and classification
- The classification layer can identify whether a tumor in the image is malignant, benign, or normal.
- Various image segmentation techniques are used with U-Net architecture for tumor size detection in millimeters.

Indoor Air Quality Monitoring And Purification System

2022

- To monitor and improve indoor air quality, a system uses the MQ 135 sensor, Atmega 328p microcontroller, and HEPA filter. The MQ 135 sensor detects harmful gases, while the Atmega 328p microcontroller processes and displays the data on a 16x2 LCD screen. Lastly, the HEPA filter improves air quality.

Languages

English • Malayalam • Hindi