Mukilan Murugan

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Objective

Motivated software engineering enthusiast with an Electronics and Communication background. Seeking web/software developer role to leverage technical skills, problem-solving abilities, and passion for innovation. Committed to contributing to dynamic teams and creating user-centred solutions.

Education

National Institute of Technology Karnataka, Surathkal   **2020 - 2024**
B.Tech in Electronics Communication Engineering   *CGPA : 7.76/10*

Kendriya Vidyalaya N.A.L., Bangalore, Karnataka   **2018 - 2020**
Senior Secondary CBSE (PCMB), Class XII   *Percentage : 95.2/100*

Kendriya Vidyalaya N.A.L., Bangalore, Karnataka   **2012 - 2018**
Secondary CBSE, Class X   *Percentage : 93.4/100*

Technical Skills

Languages/Database: C, C++, Python, SQL
Web Technologies: HTML, CSS, JavaScript, React Basics, NodeJS
Software & Tools: MATLAB SIMULINK, Anaconda, Adobe Photoshop and PremierePro

Experience/Projects

National Aerospace Laboratories-Council of Scientific and Industrial Research   **Nov 2022 – Dec 2022**
Anomaly Detection of Aircraft System Data Using Outliers-Based Detection Techniques   *Bangalore*

- Detection of anomaly in avionics data with the help of Machine Learning tools.
- Integration with preexisting GUI for industrial use.

Mindshift Ai   **March 2023 – May 2023**
Product Testing Intern   *Online*

- Coordinate system commissioning and data integration tasks.
- Support the chief data scientist to check and validate the algorithms.
- Periodic monitoring of the platform's health, tabulation and reporting.

Hyperspectral Image Classification of Satellite Images into Terrains.   **July 2022 – Nov 2022**
Mini Project in Image Processing   *N.I.T.K. Surathkal*

- To obtain the spectrum for each pixel in the image of a scene, with the purpose of finding objects(terrains), identifying materials, or detecting processes.

Sams E-Commerce Website design   **July 2023**
Web-Page Development   *online*

- Responsive E-Commerce Website Tutorial Using HTML CSS and JavaScript.
- Modern CSS, including flexbox and CSS Grid for layout.
- Advanced responsive design using media queries.

Modelling and Simulation of a Low Noise Amplifier Using LTspice.   **January 2022 - May 2022**
Mini Project in Analog Devices   *N.I.T.K. Surathkal*

- Studying the model characteristics of a low pass filter at different frequencies.
- Studying the model characteristics of a low pass filter at different frequencies.

Y-Junction Photonic Crystals Splitter   **January 2023 - April 2023**
Mini Project in Photonics   *N.I.T.K. Surathkal*

- The main objective is to Model $Al_xGa_{1-x}As$ Y-Junction Photonic Crystals Splitter using the FDTD approach and find out the best material composition for optimum performance using OptiFDTD Photonic Simulation software to design and simulate photonic equipment.

Position Of Responsibility

President - TaskForce NITK

Technical Head - Entrepreneurship-Cell NITK

Member of the Official Handball Team of NITK

NCC C-Certifcate Holder

Media Head of ACM-W 2022-23