**SHRUTHY S STANCILAS**

**PROFILE**

Skilled and motivated Engineer with expertise in C programming, C++, Python, Machine Learning, Deep Learning, Signal Processing, and Image Processing, my objective is to leverage my academic background and professional experience to drive innovation and advancements in the field of imaging technologies.

**EDUCATION**

* **M.Tech** **Biomedical Instrumentation And Signal Processing**

**CGPA – 9.26 / 10 2019-2023**

Amrita Vishwa Vidyapeetham

* **B.Tech** **Biomedical Engineering**

**CGPA – 8.67 / 10 2019-2023**

* **Class 12** – 91% **2019**

Institution:

* **Class 10** – 95% **2017**

Institution:

**TECHNICAL INTERESTS**

Embedded Programing, Machine Learning

**PROJECTS**

**IMAGE QUALITY METRIC EVALUATION TOOL** - Philips Internship

A metric evaluation tool in Python for comparing the image output to the expected result, with a primary focus on testing a framework. The tool offers users the choice between two metrics, SSIM and MSE, and features exception handling and command prompt execution using arg parser for ease of use.

**MACHINE LEARNING PIPELINE FOR CLASSIFICATION AND SPATIAL IDENTIFICATION OF PATHOLOGICAL MARKERS IN COLONOSCOPY IMAGES AND VIDEOS -** Mtech major thesis

Exploring machine learning models to automate the identification of anatomical and pathological markers in colonoscopy images and videos

**DETECTION OF PATHOLOGICAL MARKERS IN COLONOSCOPY IMAGES** - Mtech minor thesis

Real Time Polyp Detection in Colonoscopy Images using Deeplearning Model

**MYOCARDIAL INFARCTION DETECTOR -** Btech Main Project

Early Prediction Of Myocardial lnfarction From ECG

**TECHNICAL SKILLS**

C, C++, Python, Machine learning, Deep learning, MATLAB, Signal processing, Image processing, Embedded programming, KiCad, Keil

**INTERNSHIP**

**INTERN,** PHILIPS INNOVATION CAMPUS, BANGALORE

Worked as an intern in the MR R&D Software

Domain, where I developed a C++ testing framework and a Python-based image quality evaluation tool. The testing

framework automated procedures, enhancing software

reliability, while the evaluation tool contributed to improved MR imaging analysis.

**TRAINEE**, KIMS HEALTH CARE LIMITED, TRIVANDRUM

Worked as an Biomedical Engineer, proficient in preventive maintenance, equipment calibration, and ensuring safe handling of medical devices. Conducted comprehensive training for medical staff on equipment usage and maintenance procedures

**LANGUAGES**

ENGLISH   
HINDI   
MALAYALAM