**SONA PHILIP**

**ELECTRONICS ENGINEERING STUDENT**

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**EDUCATION**

**GOVERNMENT ENGINEERING COLLEGE, THRISSUR THRISSUR, KERALA**

**Bachelor of Technology, Electronics & Communication 2020-2024**

* CGPA of 8.03

**INTERNSHIPS**

**INKER ROBOTICS Thrissur, Kerala**

**Product Development Intern APRIL 2023- MAY2023**

* Designed **sensory room** to provide therapeutic environment for **children with autism**

**HAILABS Remote**

**Data Science Intern APRIL 2022- MAY2023**

* Provided **machine learning conten**t for students in classes 6-10 and back-end development for **Data Science Olympiad**

**PROJECTS**

**SENSORIUM** **IIT Bombay, Eyic Competition**

* Developed and implemented an innovative navigation system utilizing **advanced computer vision technology**, enabling **visually impaired individuals** to independently **navigate** unfamiliar environments with 75% accuracy

**CONTRACT BOT GEC Thrissur**

* Developing a **Machine Learning-powered** Chatbot capable of answering contract-specific questions, integrating with external APIs, and utilizing natural language processing

**IMAGE CLASSIFICATION USING AI**

* **Develop and deploy an object classification model utilizing machine learning techniques and supervised learning through provided sample data.**

**MUSIC VERSION**

* **Develop and implement a system for automatic musical genre classification using low-level audio features extracted from the frequency and time domain.**

**SKILLS**

* **Technical Skills**: DBMS, go-lang, Computer Networks, Python, SQL, C/C++, Docker
* **Managerial Skills**: Leadership(Organizer of GDSC WOW Hackathon), Observation, Adaptability, Problem Solving, Risk Management
* **Certifications:** Project Management by Google

**PUBLICATIONS**

**Title:** *Teaching Music Using DSP*

**Authors:** Ashwin P Joby, Allen Mammen Abraham, Sona Philip and Tessa Ann Jossy

**Status: Forthcoming,** expected publication at **‘IEEE EUSIPCO 2024’**

**Description**: This paper explores a transformative approach to music education utilizing **interactive web platforms** and **real-time audio analysis**. Interactive tools empower students to visualize and experiment with musical elements, while **DSP technology** provides immediate feedback. This innovative integration of technology enriches traditional instruction and underscores the potential to revolutionize music education.

**AWARDS**

1. GRACE HOPPER SCHOLAR 2022
2. NATIONAL FINALIST IN EYIC-IIT BOMBAY COMPETITION
3. GOOGLE DEVELOPER STUDENT CLUB LEAD 2022
4. FIRST PRIZE IN DECK HACKS
5. FIRST PRIZE IN WOMEN HACKATHON CONDUCTED BY DECK HACKS
6. LEARNING FACILITATOR AT TINKERHUB
7. Core Member of AWS Community Day 2023