**Sakthi Lakshmanan An**

**PROFILE**

An inquisitive software engineering undergraduate seeking a challenging career in a vibrant atmosphere that focuses on the use of technology in data engineering, software development, and related fields.

**EDUCATION**

* **B.Tech.** **Computer Science and Engineering**

**CGPA – 9.32 / 10 2019-2023**

Amrita Vishwa Vidyapeetham, Chennai

* **Class 12** – 85.33% **2019**

Institution: S.B.O.A Matric & Hr. Secondary School, Madurai

* **Class 10** – 96.6% **2017**

Institution: S.B.O.A Matric & Hr. Secondary School, Madurai

**PROJECTS**

**Fast data path prediction algorithm (June 2022)**

Objective: To devise a fast data path prediction algorithm, including caching probability in network,

compute and storage.

Tools & Techniques used: C-arrays, Python, customized Reinforcement Learning, and pattern extraction

scheme using auction-based heuristics and correlation trust forecasting.

**Semantic analyser (April 2022)**

Objective: To efficiently analyze and compare the similarity of domain-specific texts.

Tools & Techniques used: Natural Language Processing, Python, Gensim, Gated Recurrent Unit, and Fasttext.

**Multi-agent cleaning system and its simulation platform (October 2021 - November 2021)**

Objective: To design a robust algorithm — using our own simulation platform — that can swiftly and efficiently

deploy several available robots to clean a specific area.

Tools & Techniques used: Pygame, Numpy, Python, TinkerCAD, Centralized server handling, and modified

Dijkstra’s path-finding algorithm.

**Express Medico (November 2021)**

Objective: To identify individuals with heart, lung, or kidney disease and to detect the presence of cancer, diabetes,

malaria, and pneumonia.

Tools & Techniques used: Keras Neural Network, CNN, Logistic regression, Python, and Flask.

**TECHNICAL INTERESTS**

Data engineering

Software development

Algorithm design & optimization

Artificial Intelligence

**TECHNICAL SKILLS**

**Languages:**

C, Python, JAVA, C++, Haskell, SQL, HTML, CSS, JavaScript, Lex, Scala, and ACSL.

**Technologies:**

SDLC, WEKA, ML, Statistical modelling, Visio, AWS, Office, Git, Spring, NLP, Windows, Linux, and RPi.

**ACHIEVEMENTS & HONOURS**

**Runner-up in the First Edition of Intel® Unnati Rapid Challenge, Summer 2022**, organized by Intel® Unnati

team, Intel® Corporation. (May 2022 – July 2022)

**Second runner-up at the AIITRA Robotics challenge 2021 –** An international-level robotics competition

organized by All IIT Robotics Association. (October 2021 – December 2021)

**Top 50 challengers in the \_C0DE2heal challenge** organized by GE Healthcare. (May 2022)

**90% Academic scholarship** from Amrita Vishwa Vidyapeetham.