YAGNESHWAR DHARMALINGAM

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EDUCATION

Nanyang Technological University , Singapore **Aug 2022- Feb 2024**

- Master of Science – M.S. (Computer Control Automation)

VIT University, Vellore, India **June 2016 -July 2020**

- Bachelor of Technology – B.Tech. (Computer Science)

PROJECTS

Digital Twin

Designed a data clustering and data science project that utilizes open-source tools for detecting faults and implementing an alert system in automobiles.

Toxic Comment Classification

Designed and implemented a robust Machine Learning model to classify comments, flagging toxic content accurately. Contributed to improve content moderation and user safety in online platforms.

Action Recognition Enhancement

Developed a Python-based solution to improve visibility in low-light videos, aiding action recognition and analysis

WORK EXPERIENCE

Software QA Engineer **Jan - Jul 2022 (7M)**

Gigamon

- Conducted security testing & scans for Cloud-deployed solutions, including GVM, NSX-V, and NSX-T.
- Generated and executed a variety of test cases to validate product features.
- Automated the testing scenarios to streamline and enhance the testing process

INTERNSHIPS

Student Assistant **Sep 2022 – Dec 2023 (16M)**
Energy Research Institute @ NTU (ERI@N)

- Co-developed the creation of a Python-based **Model Predictive Control (MPC)** system for **Real-Time Applications (RTA)** across diverse projects.
- Enhancing code modularity to optimize memory efficiency, specifically for Edge Computing applications.
- Crafting a user-friendly web dashboard for efficient monitoring and control

Software Intern **May -Dec 2021 (7M)**
Gigamon

- Automated Python scripts to streamline the testing of product features
- Performed Manual and Regression Testing of products with automated scripts

Research Intern **Dec 2019 – June 2020 (7M)**
Energy Research Institute @ NTU (ERI@N)

- Devised an **Ultra-Wideband** based smart lighting system for optimized plug load management
- Constructed and implemented a user-friendly web dashboard for monitoring energy usage and scheduling numerous smart plugs
- Conducted comprehensive data analysis to scrutinize energy consumption trends and predict future energy needs

SKILLS

- **Programming Languages:** Python, Java, C, C++, SQL, HTML, Javascript, MATLAB
- **Programming Framework/Library:** Tensorflow, Keras, Pandas, Scikit-learn, Matplotlib Numpy, Scipy, Bootstrap, jQuery, Springboot and React
- **Language Skills:** English, Tamil

AWARDS

GD Naidu Young Scientist Award
VIT University

- This research focused on creating a Digital Twin and evaluating its ability to predict failures in automobiles using Machine Learning algorithms on operational data from sensors.

CERTIFICATION

Amazon Web Services(AWS) – Developers **Dec 2023**
Object-Oriented Programming Using C and C++ **May 2014**