Tarunsundar Kalyanaraman

62, Oakington Manor Drive, Wembly Park, London, HA9 6LZ, UK | TIER 4 Visa

https://www.linkedin.com/in/tarunsundarkalyanaraman (inkedin url)

+44 7586292134 – tarunsundar@hotmail.com

SKILLS

o <u>Languages</u>: Python, Java, C, C++, C#, Haskell, HTML, CSS, JavaScript, Shell scripting, PLC

o <u>Tools</u>: Selenium, Bash, TensorFlow, OpenCV, Kernel, PIP, Conda, Linux, Docker Image, Docker Hub, CI/CD Pipeline, ROS, and Gazebo

EDUCATION

AI & Data science Career Accelerator programme
This program consists of 4 Main project on Artificial Intelligence and Data science
AICore, UK.   (Sep 2022 – present)

BSc. (Hons) Artificial Intelligence and Robotics (2:2) (Took a year break for medical reasons)
Aberystwyth University, UK.   (Sep 2018 - June 2022)

PROJECTS

My GitHub page: https://github.com/Tarunsundar (link)

o **Facebook Marketplace Search Ranking code)** - Trained a model that works with images and text to make recommendations to potential buyers based on their demographic information. Hosted the application on EKS to orchestrate the containers that maintain and retrain the model. Programmed in **Python** (Oct 2022 – Present, AICore Project).

o **Data Collection Pipeline -** Developed a module that scrapes data to upset information to a database. Pushed an image of the containerised application in a CI/CD pipeline that performed unit testing and deployed the image to an EC2 instance. Created dashboards that plot the status of the container. Programmed in **Python** (Oct 2022, AICore project).

o **Rock, Paper and Scissors** - Trained a computer vision model and used Tensorflow to detect whether Rock, Paper or Scissors is shown to the camera in real-time and with a high accuracy. Used the OpenCV library to access the webcam and play Rock Paper Scissors with the computer using the image from the camera. **Python** (Sep 2022, AICore Project).

o **Autonomous Virtual Wheelchair Robot -** made using Gazebo, RViZ and ROS (In Linux), which helps a wheelchair robot to find and cross a doorway. programmed in **Python** (May 2022, Final year project – Aberystwyth University).

EXPERIENCE

Arxiz,   **(**Jul 2018 – Sep 2018)
Internet of Things Developer
o Worked on the development of a Blink Switch (this used raspberry pi) with Alexa.
o Experience with building raspberry pi server.
o Worked on a Flask API hosted on a Raspberry Pi Zero with endpoints to allow controlling GPIO pins with HTTP requests. Connected the GPIO pins with relays for the Arxiz Skye Ctrl Hub.