

KARTHIKEYAN SURESH

+33 7 8080 2668 | karthikeyansuresh2018@gmail.com
karthikeyan-357n1397e | KarthikeyanSuresh | karthikeyansuresh.github.io

EDUCATION

Erasmus Mundus Joint Masters Degree in GENIAL

Masters in Green Networking & Cloud Computing

Kyushu University

Bachelor of Electrical Engineering & Computer Science; CGPA: 3.77/4.00

Sep. 2022 – Present

FR, UK, SE

Oct. 2018 – Sep. 2022

Fukuoka, JP

EXPERIENCE

Summer Internship & IT Support Specialist

NBTC Group

Jul. 2023 – Aug. 2023

Al-Ahmadi, KW

- Observed in detail the working of the company and how the IT-related issues were managed
- Gained a comprehensive understanding of the company's IT network and systems, including the AWS cloud infrastructure and data center installations
- Assisted with various tasks such as troubleshooting, formatting, and fixing PCs and conducted backups of old PCs and performed fresh operating system (OS) and software installations

Undergraduate Research Assistant

AI & Human Interaction Lab, Kyushu University

Apr. 2020 – Aug. 2022

Fukuoka, JP

- Proposed motif discovery in Temporal Convolutional Networks (TCNN) for improved classification
- Used matrix profile to extract discords from periodic datasets and extracted patterns from them
- Combined matrix profile and original features, along with attention mechanisms, resulting in an average 6% improvement across UCR Time Series datasets
- Co-authored a paper in the **ACPR 2024 Conference Manuscript**. Second paper in the works.

PROJECTS

AHP-based Decision-Making System | Python, Arduino, JavaScript

Dec 2022 – Jan 2023

- Collaborated with colleagues at ULorraine and developed a room selection system based on user preferences and eight criteria for comfort.
- Displayed interactive 2D map real-time data, allowing users to select and view information. Utilized Analytic Hierarchy Process (AHP) values to sort and present data to users.
- Implemented sensor data collection using MQTT brokers and Arduino sensors.

Green Website Development | JavaScript, Python, Git

Nov. 2022

- Collaborated with colleagues at ULorraine to develop a green website for the Design4Green hackathon, featuring an interactive map showcasing fictional educational services categorized by various factors.

Matrix Profile-based Features for Signal Classification | Python

Apr. 2021 – Aug. 2022

- Incorporated motif discovery and matrix profile to enhance Temporal Convolutional Networks for improved classification.
- Achieved an average 6% improvement across various datasets through experiments combining matrix profile, original features, and attention mechanisms.

CERTIFICATIONS

AWS Certified Cloud Practitioner: Amazon Web Services, Sep. 2023

TECHNICAL SKILLS

Languages: Python, C++, JavaScript

Developer Tools: Git, Docker, Amazon Web Services, VS Code, PyCharm, Unity

Libraries: Stumpy, Tensorflow, ahpy, pandas, NumPy, OpenCV, ROS, Seaborn

LANGUAGE SKILLS

Native Level: English, Tamil

Limited Working Level: Japanese