Your Name

Data Scientist | Math Enthusiast

(+1) 123-456-7890 | hello@singsongaftermath.com | www.singsongaftermath.com | Sang-Buster

"Always grinding ..."

Summary

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Education

B.Sc. in Mathematics — Sept. 2021 - Jun. 2023
Massachusetts Institute of Technology — Cambridge, MA, U.S.A.

B.Sc. in Data Science — Sept. 2021 - Jun. 2023
ETH Zurich — Leonhardstrasse 21 · 8001 Zurich, Switzerland.

Research Experience

Embry-Riddle Aeronautical University — May 2023 - Aug. 2023
Summer Researcher — Daytona Beach, Florida, U.S.A.

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Massachusetts Institute of Technology — Jun. 2022 - Aug. 2022
Summer Researcher — Cambridge, MA, U.S.A.

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Skills

Tools	RStudio, VS Code, Git, Github, Vercel, Docker, LaTeX, Markdown
Back-end	PostgreSQL, MongoDB, Node.js
Front-end	HTML, CSS, JavaScript, Hugo, Hexo, Bootstrap, Reveal.js
Programming	Matlab, R, Python, Julia
Languages	English, Mandarin, Korean, Japaneese, French, Italian, Spanish

Projects

Wine Quality Modeling using Machine Learning — Sept. - Dec. 2023
Keywords: Supervised Learning, Ensemble Learning, Classification — Detail

- Developed machine learning models to predict the quality of wine based on its physicochemical properties.
- Analyzed and visualized the relationships between different variables using ggplot2, dplyr, and caret libraries.
- Implemented various regression models achieving over 80% accuracy in predicting wine quality.

Consensus-based Communication-aware Formation Control

Jun. -Aug. 2022

Keywords: Control Theory, Formation Control, Unmanned Ariel Vehicle, Multi-agent System

Detail

- Develop more effective UAV management and organizations.
- Estimate the desired separation with acceptable accuracy among UAVs.
- Ensure a consensus with optimal communication qualities between aircraft.

Static Portfolio Website: Dimension

July - Dec. 2023

Keywords: Static Site, Portfolio, Web-dev

Detail

- A web-based platform that enables users to showcase their portfolios in an interactive and engaging way.
- Utilizes responsive design to ensure optimal viewing experience across devices.
- Provides users with various customization options to personalize their portfolios and showcase their unique skillset.

Wi-Fi Indoor Positioning System based on K-Nearest Neighbors Algorithm

Sept. - Dec. 2022

Keywords: Wi-Fi Fingerprinting, Wi-Fi Indoor Positioning, KNN Classification

Detail

- Develop a model to predict the indoor physical location of smart devices under Wi-Fi.
- Use R and RStudio for data cleaning and methodology development.
- Localizing indoor devices by using KNN classification algorithm.

Facial Recognition on Raspberry Pi with OpenCV

Sept. - Dec. 2021

Keywords: Facial Recognition, OpenCV, Haar-Cascade Classifier

Detail

- Learned about the Linux operating systems and building a Raspberry Pi car.
- Face recognition for Raspberry Pi camera using OpenCV library.
- Developing a self-driving Raspberry car using CNN algorithm in the future.

Publications

Published

[1] S. Xing, T. Yang and H. Song, "Consensus-based Communication-aware Formation Control for a Mobile Multi-agent System," SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 60-67, doi: 10.1109/SoutheastCon51012.2023.10115199.

[1] S. Xing, T. Yang and H. Song, "Consensus-based Communication-aware Formation Control for a Mobile Multi-agent System," SoutheastCon 2023, Orlando, FL, USA, 2023, pp. 60-67, doi: 10.1109/SoutheastCon51012.2023.10115199.

Preprint

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Presentations

IEEE Southeast Conference 2023

Apr. 1, 2023

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Orlando, FL

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IEEE Southeast Conference 2023

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Extracurricular Activities

Lorem ipsum Sept. 2022 - Present

Participant Lorem ipsum dolor sit

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Lorem ipsum Sept. 2022 - Present

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Lorem ipsum Sept. 2022 - Present

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Honors & Awards

2022	President's List, Massachusetts Institute of Technology	Cambridge, MA, U.S.A.
2021	Dean's List, Eth Zurich	Leonhardstrasse 21 · 8001 Zurich, Switzerland

Program Committees

2016	Problem Writer 2016 CODEGATE Hacking Competition World Final	S.Korea
2013	Organizer & Co-director 1st POSTECH Hackathon	S.Korea
2012	Staff 7th Hacking Camp	S.Korea
2012	Problem Writer 1st Hoseo University Teenager Hacking Competition	S.Korea
2012	Staff & Problem Writer JFF(Just for Fun) Hacking Competition	S.Korea