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2nd year Master student

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Education

10/2020 [IMAC-G](#) program - Master's Degree Department of Robotics Graduate School of Engineering

09/2022 Tohoku University - *Miyagi, Japan*

10/2019 Research Student, Department of Mechanical Engineering

09/2020 Tohoku University - *Miyagi, Japan*

10/2012 B.Sc. Honor's First Class (CGPA: 7.18/10), Mechanical Engineering Department

11/2017 University of Khartoum - *Khartoum, Sudan*

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Projects

IBM Capstone project: Choosing Cafe location based on NYC Airbnb data ([link](#))

- IBM requirement is to find and use any kind of Geographic data and set a target.
- I used [Kaggle](#) Airbnb 2019 dataset and Foursquare API to find proper locations to open a new cafe/coffee shop in New York City. I visualized data using the Folium library. The whole project was built in Jupyter notebook using Python3.

Estimation of Lower Joints Kinematics and Kinetics Using EMG Signals and Deep Learning ([link](#))

- The link shows a poster I made to represent my master's research work. I am comparing Deep Learning (DL) efficiency to map muscles activations signals into the corresponding Joints angles and moments. In this project I collected raw data from experiment trials using three different systems, process the data, create & train DL models.

Webscraping projects

- **Instagram Bot ([gist](#)):** When starting a new business, you will want to make an advertisement for yourself. One strategy is to find competitors' pages and follow their followers so that those people will get to hear about your business by receiving a notification from their Instagram. This repetitive task requires a lot of time investment when achieved manually. This bot will follow/unfollow given account followers. The use of the bot is for new businesses.
- **Yolo Japan Apartment search ([gist](#)):** This project is a data entry project for housing search in Japan. In this project, I scraped apartment data from Yolo Japan [website](#). Scraped data are then automatically added to a google form.

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Skills

- **Programming languages:** Python (Proficient), HTML&CSS (Basics knowledge), SQL (Basics knowledge)
- **Frameworks and tools:** TensorFlow2, MS-office, git, Pandas, Numpy, Matplotlib, Seaborn, Selenium, beautifulsoup
- **Languages :** Arabic (Mother language), English(Native level), Japanese (JLPT N3)

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Courses & Certifications

- IBM Data Science Specialization
- Deep Learning by DeepLearning.AI
- JLPT N3
- TOEIC Listening and reading (score: 920 point)