

Niti Wattanasirichaigoon



nwattanasirichaigoon@hawk.iit.edu



profnote.github.io



NitiW



profnote

EDUCATION

Illinois Institute of Technology

Master's in Data Science, GPA: 3.74

Aug 2018 – Dec 2020 (Expected)

Chicago, IL, USA

University of Tsukuba

Bachelors of Science – Biology, GPA: 3.35

Apr 2011 – Mar 2015

Tsukuba, Ibaraki, Japan

EXPERIENCE

Architect Data Engineer - Intern

Python, MongoDB, Kafka, MSSQL Server, Spark, AWS

Oct 2020 – Dec 2020

Chicago, IL, USA

Build data platforms using Python, Spark, Kafka etc. which will provide insights to CCC's client within auto property damage and repair, medical claims and telematics IoT industries.

- Use Kafka and Spark ecosystem tools and technology for micro-batch and streaming analytics.

PROJECTS

Complexity Estimation of Deep Learning Models

May 2020 – Sep 2020

Data Science Practicum Project – CCC Information Services

Python, Tensorflow MirroredStrategy, Keras, pandas, numpy, Chameleon Cloud, TF datasets

- Created a tool for estimating the training time of deep neural networks given its structure, input data shape, and GPU specifications.

Color Scheme Analysis of Illustrations

June 2020

Python, Pillow, K-means clustering, PyPI

- Analyzed color usage trends of popular illustrations from the popular art site, Pixiv.
- Created a tool that extracts color palettes from an image, trim out relatively less vibrant colors, and identify the existing color harmonies.
- Published python package to PyPI by the name '[color-harmony](#)'.

Automatic Image Colorization

Apr 2020

Python, Keras, pandas, numpy, MIT Places Dataset

- Trained a convolutional neural network that also implements image classification as global priors to produce more accurate automatic colorization of grayscale images.

MLB Playoffs Prediction

Oct 2019 – Dec 2019

R, Linear Regression, Logistic Regression, LDA, Lasso feature selection

- Trained a binary classification model to predict each MLB playoff match results using regular season team performance as predictors.
- Using 2001 to 2018 data for training, the model predicts the 2019 playoffs with 71.4% accuracy.

OTHER EXPERIENCE

Throne of Games - Board Game café

Aug 2016 – Apr 2020

CO-Founder / Manager

Bangkok, Thailand

National Science Museum, Thailand

Aug 2015 – Jul 2016

Science Communicator

Pathum Thani, Thailand

SCHOLARSHIPS

Monbukagakusho Scholarship

The Japanese Government Scholarship (Full Tuition)

Apr 2010 – Mar 2015

LANGUAGES

Thai (Native)

English

Japanese

HOBBIES

Manga & Illustrations

6500+ followers