

Niti Wattanasirichaigoon

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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

Data Science Practicum Project – CCC Information Services

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

May 2020 – Sep 2020

- 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

Python, Pillow, K-means clustering, PyPI

June 2020

- 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

Python, Keras, pandas, numpy, MIT Places Dataset

Apr 2020

- 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

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

Oct 2019 – Dec 2019

- 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

CO-Founder / Manager

Aug 2016 – Apr 2020

Bangkok, Thailand

National Science Museum, Thailand

Science Communicator

Aug 2015 – Jul 2016

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