

# Logan Yoonhyuk Lee

DATA SCIENTIST · DATA ENGINEER · DATA ANALYST

13346 Connor Drive, Unit E, Centreville, Virginia, 20120

☎ (+1) 917-589-5128 | ✉ yl2vq@virginia.edu | 📷 /yl2vq | 🌐 /logan-yoonhyuk-lee/

## Education

### University of Virginia, School of Data Science

Charlottesville, Virginia

M.S IN DATA SCIENCE

July. 2019 - May. 2020

- Relevant Coursework: Data Mining, Machine Learning, Linear Models, Data Visualization
- GPA: 3.86

### University of Virginia, College of Arts and Sciences

Charlottesville, Virginia

B.A. IN STATISTICS

August. 2017 - May. 2019

- Relevant Coursework: Regression Analysis, Data Analysis with Python
- GPA: 3.38

## Publication

### Exploring Themes and Bias in Art Using Machine Learning Image Analysis

Charlottesville, Virginia

FIRST AUTHOR. SPONSORED BY THE METROPOLITAN MUSEUM OF ART AND UVA SCHOOL OF DATA SCIENCE

IEEE publication. April. 2020

- Improved search of the collection and increased use engagement by labeling the objects using machine learning
- Designed a Web-scraper to store about 500,000 metadata and images from the Met API
- Collaborated with the general manager at the Met to get feedback and update the project regularly
- Trained and compared three different neural network models for image classification
- Detected human and gender bias within the collection using Grad-CAMS

## Work Experience

### Thin Film Device Lab, UVA School of Engineering

Charlottesville, Virginia

RESEARCH ASSISTANT

Jan. 2020 - Present

- Collaborated with a researcher to fabricate a smart image sensor integrated with neural network computing
- Designed a software modeling and simulation to show capability of the new hardware device by using an autoencoder based on the experimental data

### Camp Library, UVA Darden School of Business

Charlottesville, Virginia

RESEARCH ASSISTANT

Jan. 2018 - March. 2020

- Circulated the business reserved resources and career development resources using sirsiDynix workflows.
- Assisted the reference librarians and helped graduate students getting access the online resources such as Virgo, Gartner, or Wallstreet Journal

## Project

### Machine Learning Project

Charlottesville, Virginia

UNIVERSITY OF VIRGINIA

July. 2019

- Implemented Machine Learning models using Banknote dataset from UCI machine learning repository
- Collaborated with team members to implement the classification models using Scikit-learn package
- Compared the classification models by assessing the confusion matrix and receiver operating characteristic curve

## Skills

<b>Programming</b>	Python, Rstudio, SQL, SAS, Unix, MATLAB
<b>Web</b>	HTML, CSS, Javascript
<b>Libraries</b>	Pandas, Scikit-learn, Tensorflow, Pytorch, Numpy, Sqlite, Plotly, D3
<b>Tools</b>	Tableau, Microsoft Office
<b>Languages</b>	English, Korean