



# HELLO!

**I am Julie Yan**

Welcome to my portfolio.

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# **Related Experience**

- **Deep Learning Experience**
- **Aerospace Engineering Related Experience**
  - **Computer Science & Data Science**



# Artificial Intelligence Projects

- **Computer vision**
  - Image classification
  - Image segmentation
  - Object detection
  - Face Recognition and Verification
- Natural Language Processing
- Other machine learning projects

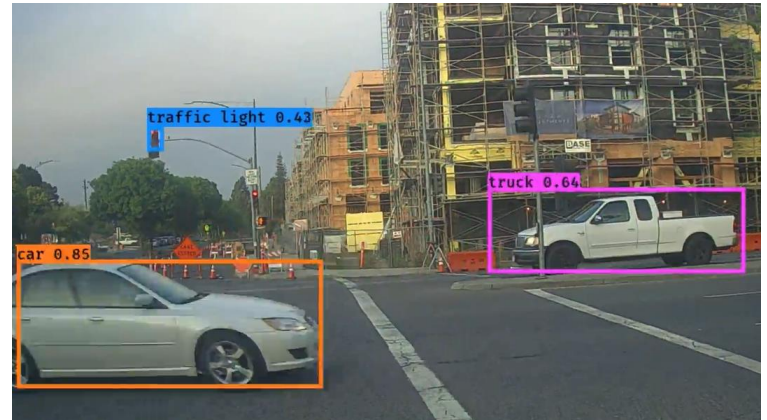
# Segmentation - Mask RCNN Project

- Project: Kaggle - iMaterialist (Fashion) 2019 at FGVC6, <https://www.kaggle.com/c/imaterialist-fashion-2019-FGVC6>
- Model Structure: Mask RCNN.
- Code : <https://github.com/JialieY/Kaggle-iMaterialist>
- Outcome example



# Detection – Yolo Project

- Project: Autonomous driving Car detection
- Model Structure: pretrained Yolo model
- Code :  
[https://github.com/JialieY/dl\\_ng/blob/master/Course4/Week3/Autonomous%20driving%20application%20-%20Car%20detection%20-%20v1.ipynb](https://github.com/JialieY/dl_ng/blob/master/Course4/Week3/Autonomous%20driving%20application%20-%20Car%20detection%20-%20v1.ipynb)
- Outcome example



# FaceNet Projects

- Project: Face Recognition & Verification
- Model Structure: FaceNet, DeepFace
- Code :  
[https://github.com/JialieY/dl\\_ng/blob/master/Course4/Week4/Face/Face%20Recognition%20for%20the%20Happy%20House%20-%20v2.ipynb](https://github.com/JialieY/dl_ng/blob/master/Course4/Week4/Face/Face%20Recognition%20for%20the%20Happy%20House%20-%20v2.ipynb)
- Outcome example



It's not kian, please go away  
(0.86224014, False)

# Other Projects

- Project: Image Classification
- Project: Neural style transfer to generate new art images
- Natural Language Processing Projects:
  - Kaggle competition - Quora insincere questions classification
  - Sentiment classification
  - Sequence generation, including, music, text
  - and etc.
- Machine Learning projects
  - Supervised: Classification, Regression
  - Unsupervised: Cluster





# Aerospace Experience

- Software Validation
- API Testing
- Numerical engineering algorithm results validation
- CAD - 3D modeling
- CAE - Structural Analysis, Finite Element Analysis
- And etc.





# Computer Science

- Knowledge: Data Structure, Data Algorithm
- Framework/Library: Tensorflow, Keras, Scikit-learn, Nltk, Numpy, Pandas, Scipy, Matplotlib, Beautiful soup, etc.
- Languages: Python, SQL, Matlab

# Mathematics

- Statistics, Probability, Linear Algebra, Applied Mathematics, Engineering Mathematics



# THANKS!

**Any questions?**

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