Suyeong An

godtn0@gmail.com

https://godtn0.github.io

Interests

- Deep Learning, Computer Vision, Reinforcement Learning,
  - Using reinforcement learning to create intelligent agent.
  - Using computer vision to make reasonable question and answering network from image.
  - Image to image translation and image synthesis by segment level style.
  - Using deep learning to make agent understand real world.

Education

Korea University Seoul, Republic of Korea

- Bachelor of Science in Computer Science and Engineering Mar. 2017 – Present

  Major GPA: 4.47/4.5, Cumulative GPA: 4.31/4.5
  - Relevant coursework: Linear Algebra, Statistics and Probability, Basic Statistics, Discrete Mathematics, Probability and Random Process, Engineering Mathematics, Operating System, Theory of Computation, Data Structure, Algorithms, Data Science, Computer Architecture, Artificial Intelligence, Machine Learning, Deep Learning.
  - (MOOC) Reinforcement Learning, Deep Learning(Computer Vision);

Experience

- **Sycros - Alternative Military Service** Seoul, Republic of Korea

  Deep Learning Researching and Engineering for Time Series Dataset Sep. 2020 – Present(Aug. 2022)
  - Research computer resources forecasting with deep learning

- **VoyagerX - Internship** Seoul, Republic of Korea

  Software Engineer with Video Processing Mar. 2020 – Aug. 2020
  - Implement video editor with deep learning for video
    - Using React.js and Tensorflow.js, implement and research deep learning method for video processing such as extract the face landmark in real time.

- **POG Korea - Developer** Seoul, Republic of Korea

  Software Engineer with Video Processing Jan. 2019 – Sep. 2019
  - Implement parking assistance service with video processing
    - Used classical methods of computer vision to segment the car and parking slot and carry on deep learning methods using C++.

- **Artificial Intelligence Lab,** Korea University Seoul, Republic of Korea

  Undergraduate Researcher (Advisor: Prof. Dongsuk Yook) Dec. 2018 – Mar. 2019
  - Resolving pipelined back-propagation problem

- **Microsoft Student Partner** Seoul, Republic of Korea

  Announcing Microsoft's Azure Service Aug. 2017 – Dec. 2018
  - Announcing Azure Machine Learning Studio

Projects

- **Question Answering Network for Physical Reasoning** Oct. 2019 - Dec. 2019
  - Combined DQN with question & answering module to make agent understand physical concepts.
- **Speech Recognition Using Baum-Welch Algorithm with GMM** Sep. 2018 - Nov. 2018
  - Implement number speech recognition using Vaum-Welch algorithm and Viterbi algorithm with Gaussian Mixture Model.
- **Voice Data Analysis Using DNN and Product Recommendation System** Mar. 2019 - Jun. 2019
  - Analysis the age and gender information of speaker using deep neural networks.
  - Recommend product with maximizing profit using history of purchase.

Awards and Honors

- **3rd Prize** in **Intel AI Drone Contest** Oct. 2018
- **Semester High Honors**, Korea University Spring Semester, 2019