Chingis Oinar

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EDUCATION

- **Sungkyunkwan University** Suwon, South Korea
  Bachelor's Degree in Computer Science; CGPA: 4.41/4.50 (98%) *Sep. 2018 – Jun. 2022*

  - Six consecutive Dean's List Awards.
  - Samsung Global Sungkyun Scholarship (about 6,000 USD per semester).
  - **Relevant courses:** Algorithms, Data structures, Databases, Software Engineering, Deep Learning, Machine Learning, Artificial Intelligence.

EXPERIENCE

- **DASH Lab at Sungkyunkwan University** Suwon, South Korea
  Undergraduate Researcher *Jun 2021 - Present*

  - **Research**: Research on Deep Face Recognition. Outperformed and Achieved SOTA results on multiple popular Face Recognition Benchmarks. **Keyword:** Computer Vision.
  - **Collaboration**: Research with University of Southern California on YouTube Video Classification. Joined to an ongoing project and Improved classification accuracy from 0.89 to 0.95. **Keyword:** Natural Language Processing.

- **NUVI Labs** Seoul, South Korea
  Machine Learning Engineer — Part-time *Feb 2021 – Jun 2021*

  - **2021 AI Online Competition**: Placed 7th at Korean hairstyle segmentation track. (top 14%)
    * **Developed and Researched**: Semantic Segmentation and Mask Refinement models. Final IOU score is 0.9354.
  - **Developed and Researched**: Unsupervised, Self-supervised and Supervised Representation Learning to cluster unseen food images.

- **NUVI Labs** Suwon, South Korea
  Machine Learning Engineer Intern *Dec 2020 – Feb 2021*

  - **AI Grand 2020 Challenge**: Placed 3rd (567 Million KRW) at the second round of Object Recognition track.
    * **Refactored**: and Implemented the final pipeline.
    * **Improved**: the model performance by 5% with implicit semantic data augmentation.
  - **Improved**: company's classification performance on an imbalanced dataset by almost 21%, from 0.71 to 0.92 in terms of f1 score.
  - **Implemented**: CI/CD ML pipeline using Apache Airflow, RabbitMQ, Celery and AWS for AI food scanners to be used in SK Telecom and the US Military Base in South Korea.

PROJECTS

- **Udacity Self-driving Car Challenge 2**: Extensive study and research on Udacity's competition. **Developed** a new architecture based on Transformer and Optical Flow. Achieved RMSE score of 0.0577 and 0.0588 on private and public test data respectively, which corresponds to the 3rd place solution in the official leaderboard. Used: Pytorch, Numpy, Opencv. **Technical Report** bit.ly/3lOVgxM
- **Self-Supervised Image Classification**: Placed 1st (top 3%) at Kaggle's InClass Competition organized as a Final Project for Deep Learning Course at Sungkyunkwan University (2021 Spring). Achieved accuracy of 0.96 in private leaderboard. Used: Pytorch, Numpy, Opencv. **Technical Report** bit.ly/3yFjdvS
- **Warehouse Robot**: Made a simplified Raspberry Pi robot of the system where a robot is able to follow the shortest path obtained using Dijkstra's algorithm and Machine Learning algorithms (with the help of socket programming). Used: Scikit-learn, Numpy, Opencv. **Github** bit.ly/3ijA8Nj **YouTube** bit.ly/35OqJZg

PROGRAMMING SKILLS

- **Programming Languages:**Python, Javascript, C, SQL, Java, Julia. **Technologies:**AWS, Apache Airflow. **Languages:**English, Russian, Kazakh, Korean (Elementary).