

## SUHWAN TCHA

**Email:** dndoehk11@gmail.com

**Phone:** +82-10-9503-6670

**LinkedIn:** linkedin.com/in/suhwantcha

**Location:** Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

---

### Objective

Aspiring machine learning engineer with a solid academic background and practical experience in machine learning, data analysis, and model development. Passionate about advancing AI technologies and eager to contribute to cutting-edge research projects through a summer internship at Boeing.

---

### Education

**Sogang University** — Bachelor's Degree Candidate in Computer Science

(Transferred in 2024, Expected graduation Aug. 2026)

Seoul, South Korea

- Relevant coursework: Introduction to Deep Learning, Basic Machine Learning, Systems Programming, Big Data Studies, Big Data Computing, Econometrics, Big Data and Business Model
- Member and mentor at Parrot Data Science Club (Parrot 데이터사이언스 학회), guiding junior members in machine learning projects and data analysis

**Hankuk University of Foreign Studies (HUFS)** — Major in Information and

Communication Engineering (2020 – 2023)

- Relevant coursework: Relevant coursework: Linear Algebra, Algorithms, Discrete Mathematics, Probability and Statistics, Probability Distributions, Open Source and Software Practice
- 

### Projects

**YouTube View Count Prediction**

- Developed a Random Forest regression model to predict YouTube video view counts using data collected via the YouTube Data API.
- Performed feature engineering and data preprocessing on video metadata such as subscriber count, video length, channel category, and title length.

### **Seoul Real Estate Price Prediction**

- Built a predictive model for property prices using publicly available real transaction data from Seoul's real estate market, sourced from the Korean Public Data Portal.
- Conducted comprehensive data cleaning, feature selection, and model evaluation to improve prediction accuracy.

### **Object Detection using SSD Model**

- Implemented an object detection system using Single Shot MultiBox Detector (SSD) to identify and classify objects in video frames.
- Improved detection accuracy and speed through model tuning and dataset augmentation.

### **Dog and Cat Image Classification with EfficientNet**

- Applied transfer learning with EfficientNet architecture to classify images of dogs and cats.
- Applied CutMix data augmentation technique to improve model robustness and accuracy.
- Achieved high classification accuracy by fine-tuning pretrained models.

### **Concurrent Stock Server Project**

- Built a concurrent stock trading server in C, implementing event-driven and thread-based models for efficient multi-client handling.

### **Database System Implementation**

- Designed a MySQL database from an E-R diagram, normalized to BCNF, and developed a C/C++ application using ODBC and MySQL C API. Implemented queries for sales and inventory analysis with realistic sample data.
-

## Work Experience

### Teaching Assistant – English & Math

Megastudy Russel Academy, Bundang-gu, Seongnam-si

Yesum Academy, Gangnam-gu, Seoul

February 2024 - Present

- Assisted instructors with classroom management and lesson preparation for English and math classes.
- Supported students by providing explanations and answering questions during and after lessons.

### Satellite Operation Squad Leader (Military Service)

Republic of Korea Army, South Korea

January 2022 – July 2023

- Led a squad responsible for operating and maintaining satellite communication equipment.
  - Managed team coordination, training, and technical troubleshooting under high-pressure situations.
- 

## Skills

- Programming: Python, PyTorch, TensorFlow, Scikit-learn, C/C++
- Machine Learning: Model Development & Evaluation, Supervised/Unsupervised Learning, Transformer-based Architectures (e.g., ViT, BERT), CNNs for Image Tasks, Time Series Forecasting, Generative Models (LLMs, VLMs)
- Data Analysis: Feature Engineering, Data Preprocessing, Visualization (Pandas, Matplotlib, Seaborn)
- Tools: Git, Jupyter Notebook, Visual Studio Code, MySQL, Notion, Linux, Google Colab
- Soft Skills: Problem Solving, Critical Thinking, Team Collaboration, Communication