

# ALEXEY LI

ML Engineer

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## ACADEMIC EXPERIENCE

**Pusan National University**  
*Student Researcher - Machine Learning*

Busan, South Korea  
09/2023 - 09/2024

- **Data Engineering:** Build large, custom datasets by implementing fetcher and preprocessing units to periodically retrieve data from varying sources using Python frameworks Pandas, NumPy, OpenCV.
- **Neural Network Modelling:** Developed, implemented, and optimized a Convolutional Neural Network (CNN) architecture for image data prediction using TensorFlow and Keras.

**Pusan National University**  
*Student Researcher - Data Science*

Busan, South Korea  
09/2022 - 09/2024

- **Data Analysis:** data preparation with Pandas, NumPy and OpenCV, data visualization using Matplotlib, revealing correlations and dependencies within the data, and generating output predictions.
- **Prediction Modeling:** Building prediction models using Scikit-learn, Keras, and TensorFlow. Calculated and displayed model accuracy, precision, and confusion matrix results with proper consequences.

## PROJECTS

**Tailoring Music for Every Generation**

TensorFlow Keras OpenCV SpotifyAPI Flask

Built CNN age recognition model VGG19 with **6.32 MAE** for every age, connected Spotify recommendation system to listen demos

**Personal Mailbox Spam Filter**

Scikit-Learn NumPy Pandas Email Matplotlib

Built meta model based on Naïve Bayes model trained on text of a mail and Random Forest model based on sender features. Combined model total accuracy **0.98**

**FlappyBird AI Bot**

PyGame Neat Pickle

FlappyBird using NEAT (NeuroEvolution with Augmented Topologies) framework with integrated Genetic Algorithm, tuning the model and population genomes as soon it riches the game **score 500**

## EDUCATION

**Pusan National University**

Bachelor Degree in Computer Science and Engineering  
09/2020 - 09/2024

## SKILLS

**Languages**

Python, C++, Java, MySQL

**Data Processing**

Pandas, NumPy, OpenCV, PIL, re, Matplotlib, Seaborn

**Model Development**

Scikit-Learn, TensorFlow, Keras, PyTorch

**Tools**

Git, Docker, Linux

**Additional Frameworks**

GamePy, Flask, FastAPI

## LANGUAGES

**Korean** - Intermediate(TOPIK4)

**English** - Advanced

**Russian** - Native

## HOBBIES

Gym, Drawing, Hiking,  
Social Evenets

## PREFERENCES

Computer Vision, AI research,  
Machine Learning, Data Science