


# Kwangjin Park

Seoul, Republic of Korea

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## Education & Skills

### Konkuk University(Seoul)

Mar.2016 - Feb.2023

B.E in Civil and Environment Engineering

GPA 3.33 / 4.5 (Major 3.50 / 4.5)

### Korea National Open University

Feb.2026 - Feb.2028(expected)

Prime College, Department of Advanced Engineering, AI Major

**Language:** Korean / English

**IT:** Python(PyTorch, Pandas, Numpy, Dataviz(matplotlib etc.) / Git / Linux / Notion / Claude MCP

**YangChung High School(Seoul):** Graduated(Natural Science)

## Projects

### Lightweight Modeling Recipes for Audio Language Models - TeamLeader (NOTA AI - Company Hackathon)

NOTA AI, NAVER BoostCamp AI Tech

Jan.2025 - Feb.2025

Design lightweight audiolm for resource-limited devices

Make 26% reduced SALMONN-3B Model for maintaining 85% benchmark score

- Lightweight SALMONN-3B model by Structure depth pruning(LLaMA, Whisper Layer) and Quantization to reduce memory, latency and maintain benchmark(ASR, AAC, QA).
- Apply LoRA and Flash-Attention to SALMONN after light-weighting
- Experiment to change LLM Models, Llama(Vicuna) to Qwen and deepseek to active well
- Achieve 26% reducing memory and latency(mean value of TTFT and TPOT), maintain 85% benchmark than original

### Real Estate Deposit Price Prediction

AI Stages, NAVER BoostCamp AI Tech(Toy project)

Oct.2024 - Nov.2024

Develop the Seoul metropolitan apartment deposit price prediction model using spatial feature engineering and ensemble techniques

Achieve 42% RMSE improvement over baseline

- Construct data pipeline along with location data for subway stations, schools, parks, and monthly interest rate data(from. Statistic Korea)

- Conduct Feature engineering in-depth(proximity to office area / the number of facilities near apartments within specific distances / lifecycle of apartments / Demand-supply patterns over year / KNN – based features generated using latitude and longitude)
- Apply processed feature, RMSE is reduced 42%(RMSE 4212.1) more than baseline model
- Achieve first place on the leaderboard(total 10 team), contributed by tools for handling experiment(WandB, Optuna, GitHub, Notion) to increase teamwork.

## Movie Recommendation

*AI Stages, NAVER BoostCamp AI Tech(Toy project)*

*Nov.2024 - Dec.2024*

Develop RecSys about top-10 movie in a user's time-ordered sequence(some items are dropped out)

Improve Recall@10 31% over baseline

- Experiment to use various RecSys models, based on various RecSys principles (CF, Contents-based, Contents-aware, Sequential-based)
- Combine static model and CF model, Recall is improved 31%(Recall@10=0.1601)
- Address cold-start issues by employing techniques, such as negative sampling and incorporating side information, reflecting diverse aspects of the data.

## AI Activities

### NAVER BoostCamp AI Tech

*Online & Offline (Bundang-gu, Seongnam-si)*

*Aug.2024 - Feb.2025*

Certificated (Track: RecSys)

- **AI Basics** - ML, DL, AI Math
- **PyTorch & ML LifeCycle** - NN Classifier, Backpropagation, Transformer
- **EDA & DataViz** - Matplotlib, Seaborn
- **Basic AI Development** - Linux, Shell command/script, Streamlit
- **ML for Recsys** - Statistics, Variational Inference, M.C.M.C, Method about training ML Model
- **ML Techniques** - Regression, Clustering, Retrieval, Tree Model(XGB, LGB, RF etc.)
- **ML Projects** - Bitcoin Price Prediction, Real Estate Price Prediction
- **RecSys** - CF, Models about RecSys(Item2Vec, ANN, RecSys with DL, MLP, AE, GNN, RNN)
- **RecSys Projects** - Book Rating Prediction, Movie Recommendation
- **Generative AI** - Pretrained LLM, PEFT, sLLM, GAN, Stable Diffusion
- **Product Serving** - Airflow, Batch Serving, FastAPI, Docker
- **Optimization / Lightweight** - Pruning, KD, Quantization, Distributed learning
- **Company Hackathon** - Lightweight AudioLM Model

## Work Experience

### Dongbu Engineering

*Jung-gu, Seoul / Jan.2023 - Aug.2024*

Civil Engineer (Main: Geotechnical Engineering)