

# Yeajin Byun

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## EDUCATION

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### Inha University

B.S. in Industrial Engineering & Software Convergence Engineering

- GPA: 3.91 / 4.5

*Incheon, South Korea*

*Mar 2017 - Feb 2023*

## EXPERIENCE

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### POSTECH Institute of Artificial Intelligence

Researcher

Intern

Text-to-Timbre

*Pohang, South Korea*

*Dec 2023 -*

*Oct 2023 - Dec 2023*

- Referenced the txt2img model using Normalizing Flows and fully converted it into an architecture suitable for txt2spkemb tasks
- Improved speaker embedding module by replacing the LSTM layer with TDNN + self-attention to address concerns about gradient vanishing in long sequences
- Applied LoRA for efficient fine-tuning in the txt module, reducing parameters from 111M to 1.2M
- Enhanced multi-speaker support by replacing the speaker embedder in the speech synthesis model
- Optimized the data tagging process by simplifying a complex system into an intuitive structure and creating a guideline, resulting in the dataset expanding more than 5 times from 800.

### Real Data

Researcher

- Contributed to a big data analysis platform construction project at Shinhan Financial Investment Corporation

- Converted a customer churn prediction model from SAS to Python
- Developed a customer segmentation model using K-Means on transaction data for targeted marketing
- Utilized AWS Sage Maker Studio platform

- Developed educational materials on ML modeling for Woori Card

- Prepared a basic Python syntax guide.
- Created and delivered Python machine learning training materials using Scikit-learn.

Intern

- K-Data Data Voucher Support Project

- Conducted web scraping to collect approximately 6.7 million news articles for NLP-based corporate bankruptcy prediction research, extracting bankruptcy-related keywords from the articles
- Automated web scraping for company IPO data, developed a web scraper

*Seoul, South Korea*

*Jan 2021 - Jun 2021*

*Jul 2020 - Dec 2020*

## Projects

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### Porotect

Sep 2023

A protection Service Against Unauthorized AI Training

### IPO Journey Crawler

Dec 2021

A web crawler that collects IPO data & first day trading data and organizes them

### Eye Flicker

Jan 2020

A program that distinguishes whether the eyes are closed or open

### INHA Group for Problem Solving

Mar 2019 - Dec 2019

Movie Audience Prediction Project through Big Data

- Conducted a project with C&B Multiplex
- Constructed a web crawler to collect movie reviews

## AWARDS

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**Top Award**, POSCO Youth AI · Big Data Academy, 2023

Pohang, South Korea

Awarded for top of the results of the AI project.

**Excellence Award**, POSCO Youth AI · Big Data Academy, 2023

Pohang, South Korea

Awarded for excellence of in Individual performance.

**Excellence Award**, I-GPS Practical Problem Research Contest IT Convergence, 2019

Incheon, South Korea

Awarded for excellence of the results of the project.

## EXTRA-CURRICULAR ACTIVITIES

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### Gueltto

South Korea

Technical Blog Writing Group

Jul 2021 - May 2024

### Student Council of the Department

Inha University, Incheon, South Korea

Treasurer

Jan 2019 - Dec 2019

- Elected as a treasurer for the department
- Facilitated weekly council meetings with the president to listen to students' opinions and prepared welfare plans
- Devised and managed overall budget proposals
- Prepared for the student council budget audit

### International Regional Studies Program

University of California, Riverside, USA

Selected as one of 50 participants for the program

Jan 2020

### RIVS, Busking Club

Inha University, Incheon, South Korea

Vocalist

2019

## Educational Volunteer Club for Children

Head of Student Affairs Team

- Made kids' dance for children and performed it with them on Children's Day

*Inha University, Incheon, South Korea*

*Mar 2018 - Dec 2018*

## CERTIFICATES

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### Big Data Analysis Engineer

*Jul 2023*

Korea Data Agency

빅데이터분석기사 / 한국데이터산업진흥원

### Information Processing Engineer

*Nov 2021*

Human Resources Development Service of Korea

정보처리기사 / 한국산업인력공단

## SKILLS

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### Programming

Language: Python

Libraries: PyTorch, Pandas, numpy, Scikit-learn, MYSQL, request, BeautifulSoup, etc.

### Communication Strategy