

# Si Hyeon Yang

Sangmyung University  
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## Education

|                       |  |
|-----------------------|--|
| Seoul, Korea          | <b>Sangmyung University</b>  |
| Mar. 2020 – Feb. 2025 | Department of Human-Centered Artificial Intelligence<br>Bachelor Student |

## Research Interests

Mental Health  
Natural Language Processing  
Computer Vision

## Project Experience

|                       |  |
|-----------------------|--|
| Seoul, Korea          | <b>Early detection of drowsiness using non-intrusive method</b>  |
| Mar. 2024 – Nov. 2024 | Team Leader<br>- Sangmyung Univ. / Capstone Design Project<br>- Develop a driver monitoring system that detects early signs of drowsiness through physiological changes before the driver becomes aware of them<br>- Predict three levels of drowsiness by analyzing eye, mouth, eyebrow and heart rate using rPPG   |
| Daejeon, Korea        | <b>Deepfake video detection model</b>  |
| Dec. 2023 – Dec. 2023 | Team Member<br>- Ministry of National Defense (MAICON) / AI Competition<br>- Develop a binary classification model to detect deepfake videos using an ensemble of models, including ResNet   |
| Seoul, Korea          | <b>Low language sensitivity detection model</b>  |
| Jun. 2023 – Aug. 2023 | Team Member<br>- NLP course at Data Youth Campus / Project<br>- Create a dataset of expressions with low language sensitivity<br>- Create an alternative dictionary for words with low language sensitivity<br>- Develop a binary classification model to detect text with low language sensitivity and a multiclass classification model to classify categories using KcELECTRA |
| Seoul, Korea          | <b>Physiological tendency prediction model based on test results</b>   |
| Aug. 2022 – Aug. 2022 | Team Member<br>- Dacon SW 중심대학 공동 AI 경진대회 <예선> / AI Competition<br>- Analyze users' psychological test data to predict psychological propensity<br>- Develop an ensemble model based on LGBM and ExtraTrees  |

## License

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| Nov. 2022 | AI Certificate for Everyone (AICE) Associate |
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## Awards

|           |   |
|-----------|---|
| Dec. 2024 | 2 <sup>nd</sup> prize, Capstone Design Competition                          |
| Nov. 2024 | 1 <sup>st</sup> prize, Human-Centered AI Graduation Portfolio Festival      |
| Dec. 2023 | 3 <sup>rd</sup> prize, MAICON hosted by the Ministry of National Defense    |
| Feb. 2023 | Encouragement Award, Sangmyung Creative Convergence Achievement Competition |

## Scholarships

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|------------------------|---|
| 2022-1, 2022-2, 2024-1 | SW Scholarship (Beyond the scholarship limit) |
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| 2022-2, 2024-2<br>2024-2 | University Innovation Support Scholarship<br>Contest Scholarship |
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### Extracurricular Activity

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Jun. 2021 – Present

**Data Analytics Club, Dae Na Moo**

- Python, Machine Learning, Deep Learning Study
- Paper Review Study (Tistory)
- Textbooks I studied are:
  - (1) 데이터 과학을 위한 파이썬 프로그래밍
  - (2) 이것이 데이터 분석이다 with 파이썬
  - (3) 파이썬 머신러닝 완벽 가이드
  - (4) 밑바닥부터 시작하는 데이터과학
  - (5) 데이터가 뛰어노는 AI 놀이터, 캐글
  - (6) 밑바닥부터 시작하는 딥러닝1
  - (7) 밑바닥부터 시작하는 딥러닝2

Jun. 2023 – Aug. 2023

**Data Youth Campus**

- AI Education including Machine Learning, and Natural Language Processing

Jan. 2024 – Feb. 2024

**LG Aimers**

- AI Education including Machine Learning, and Deep Learning

### English Proficiency

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Sep. 2024

TOEIC 865