

# SIMON AYTES

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## EDUCATION

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**Korea Advanced Institute of Science and Technology (KAIST)** *Seoul, South Korea*  
M.S. in Artificial Intelligence *Expected: 2025*  
Graduate Student Researcher, MLAI Lab (Advisor: Prof. Sung Ju Hwang)

**Lehman College, City University of New York** *New York, NY*  
B.S. in Computer Science *2022*  
Cumulative GPA: 3.9/4.0, *summa cum laude*

## RESEARCH EXPERIENCE

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**MLAI Lab, KAIST** *Seoul, South Korea*  
*Graduate Student Researcher* *March 2024 – Present*

- Conducting research on large language models (LLMs) with a focus on retrieval-augmented generation (RAG) for in-context learning and efficient test-time reasoning.
- Optimizing few-shot learning techniques for image classification in low-data scenarios.
- Working under the guidance of Prof. Sung Ju Hwang to explore efficient AI adaptation strategies.

**NASA Langley Research Center** *Hampton, VA*  
*Mixed-Reality Research Intern* *August 2019 - August 2021*

- Developed a data science VR application in Unity3D and Unreal Engine for interactive data analysis.
- Conducted stakeholder interviews to ensure the VR application aligned with real-world user needs.
- Designed a Virtual Reality prototype for data visualization, improving data interaction methods.

## PROFESSIONAL EXPERIENCE

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**Penta Group** *New York, NY*  
*Data Scientist* *September 2021 – February 2024*

- Developed and deployed an AI-powered TikTok social listening tool, enabling automated topic extraction from videos and comments, improving market trend detection.
- Designed and implemented interactive web-based analytics dashboards, reducing manual data processing time by 90%, allowing analysts to generate insights more efficiently.
- Built an NLP-based Named Entity Recognition (NER) tool that automated the classification of 2M+ tweets per month, replacing manual review and significantly improving processing speed.
- Managed and coordinated internal analysis efforts, leading a team to develop real-time media intelligence reports, improving response times for client decision-making.

## TECHNICAL SKILLS

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<b>Programming</b>	Python, R, SQL, C#, C++ (Intermediate), Git
<b>Deep Learning</b>	PyTorch, TensorFlow, Scikit-Learn
<b>Machine Learning</b>	Retrieval-Augmented Generation (RAG), Few-Shot Learning, NLP
<b>Data Science</b>	Pandas, Numpy, Keras, Jupyter Notebooks
<b>Software</b>	TensorFlow, PyTorch, Unity3D, Unreal Engine
<b>Languages</b>	English (Native), German (Proficient), Korean (Elementary)