SIMON AYTES

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EDUCATION

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

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

PROFESSIONAL EXPERIENCE

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, improving AI's adaptive capabilities.
· Optimizing few-shot learning techniques for image classification tasks in low-data scenarios.

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

· Designed and deployed an industry-first TikTok social listening tool, leveraging AI for theme extraction, enabling targeted marketing strategies.
· Delivered web-based analytics dashboards to streamline data exploration for analysts, increasing user efficiency by 30%.
· Innovated media analysis methods, expanding capabilities across traditional and social media platforms.

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

· Designed and developed an applied data science VR application using Unity3D and Unreal Engine, combining immersive technology with data analysis to explore new ways of interacting with complex datasets.
· Conducted stakeholder interviews to inform a user-centric development process, ensuring VR solutions met practical user needs.
· Conceptualized and developed a Virtual Reality prototype for data visualization and analysis, providing innovative solutions for visual inspection and complex data analysis tasks.

SKILLS

Programming Languages	Python, R, SQL (Advanced), C#, C++ (Intermediate), Git
Software	Jupyter Notebooks, TensorFlow, PyTorch, Excel
Packages	TensorFlow, PyTorch, Scikit-Learn, Pandas, NLTK, Keras, Numpy
Research Focus	Large Language Models, In-Context Learning, Few-Shot Learning, NLP
Spoken Languages	English (Native); German (Proficient); Korean (Elementary)