

Yunah Kim

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Portfolio: yunahkim.com

Education

Michigan State University
Bachelor of Science in Computational Data Science, GPA: 3.92

August 2025 - May 2028

Technical Skills

- **Programming Languages:** Python, C++, R, SQL, JavaScript
- **Web & Data Visualization:** React, Node.js, HTML5/CSS3, D3.js, Streamlit
- **Tools & Databases:** Git, PostgreSQL, Pandas, Scikit-learn, HuggingFace
- **Specialization:** Machine Learning (NLP), Data Structures & Algorithms, Full-stack Fundamentals

Experience

AI Club Project Member

Amazon Review Analyzer — ML Classifier Project

August 2025 – December 2025

- Built a review classifier using scikit-learn and pandas; processed **50K+** reviews with text + sentiment features
- Improved accuracy **62% → 84%** and deployed a prediction app via **Streamlit**
- Achieved **80%+** accuracy on competition dataset

Technical Workshops & Sprint Program

August 2024-Present

- Completed **10+ technical workshops** covering NLP, feature engineering, and ML deployment
- Participated in weekly progress checkpoints and collaborated with peers to debug models

Imagine Software Club — Active Technical Member

January 2025-Present

- Attended **25+ technical, networking, and client-facing events**, including Bash Workshop, Amazon career night, and JP Morgan recruiting session
- Participated in club-wide educational pipeline (AI/ML, full-stack tools, deployment, and Git workflows) and weekly progress checkpoints
- Maintained consistent attendance to gain priority consideration for client-facing software projects and cross-campus industry partnerships

EIFOL (English Institute For Online Learning) — Co-Founder & Lead Tutor

September 2022 – Present

- Co-founded an online tutoring program supporting **20–25 ESL students** across **6 proficiency levels** in Korea and the U.S.
- Designed and launched the **official EIFOL website**, centralizing onboarding, schedules, and materials and reducing new-student onboarding time by **50%+**
- Delivered **weekly 1:1 and group sessions (2–4 hrs/week)** covering grammar, reading and speaking, and improved placement test performance across multiple cohorts
- Coordinated **5 tutors**, assigned students by level, and developed the internal structure that enabled the program to scale beyond solo instruction

Projects

Flight Delay Simulation — D3.js, Front-End Data Visualization

- Developed a fully interactive airline departure simulator visualizing **250+** ORD flights with status-based animation (on-time / delayed / cancelled), rendering in real-time using **D3.js**
- Built responsive UI, mapped geographic hubs (ATL/SEA/SLC/MSP/LGA/DTW), and converted raw **CSV** into structured **JSON** for scalable browser data loading
- Designed coordinated **SVG rendering & animation system** supporting variable time speeds and active-flight tracking

Multimodal AI Overconfidence Analysis — CMSE 202 Honors Project

- Quantified CNN reliability collapse on distorted MNIST images, showing accuracy **98% → 52%** while confidence remained **80%+**
- Built distortion pipelines (noise/blur/rotation) and evaluated accuracy & ECE on **1,000+** test samples
- Delivered reproducible notebook and findings presentation

Fake News Credibility Classifier — NLP, Transformers, Python, HuggingFace

- Built a news credibility scoring tool using DistilBERT zero-shot classification on **500+** news headlines across politics and public health
- Extracted and analyzed linguistic markers associated with misinformation to assign credibility scores and highlight risk-indicating phrases
- Achieved deployable **MVP** within 1 day, demonstrating model feasibility and foundation for future BERT fine-tuning and explainability (SHAP)