Yongchan Lee

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SUMMARY

Experience in transforming messy, multi-source operational data into analysis-ready datasets. Proficient in Python, SQL, and Tableau, with a strong focus on data validation, KPI development, and stakeholder-ready reporting.

TECHNICAL SKILLS

Programming & Query: Python (Pandas, Scikit-learn), SQL (MySQL), R
Data Analytics: EDA, Regression Analysis, Time-Series Analysis, Data Validation
Data Visualization & Reporting: Tableau, Excel
Data Collection & Preparation: API-Based Data Ingestion, Data Cleaning, Data Wrangling, Feature Engineering, Automated Pipelines

EXPERIENCE

Sherwin-Williams Wooster, OH
Intern, Data Analyst May 2025 - Dec 2025

- Reframed an ambiguous risk request as a measurable KPI by formalizing risk as expected financial loss.
- Resolved data granularity constraints through data mapping, recovering 30% of unusable data to enable work-center-level analysis.
- Built and evaluated a Python-based risk analysis model, achieving 90% accuracy in risk tier prediction.
- Enabled decision-making by classifying work centers into High / Medium / Low risk tiers and presenting comparable scenarios.

Ulsan National Institute of Science and Technology (UNIST) Ulsan, Korea
Intern, Research Analyst Jun 2024 - Aug 2024

- Built an automated Python pipeline using NASA APIs to ingest, clean, and integrate large-scale environmental datasets.
- Designed an analysis-ready dataset by engineering environmental and vegetation features aligned with crop growth stages.
- Validated analytical value of engineered features through regression analysis, achieving 0.15 improvement in R^2 over published benchmarks.

The College of Wooster Wooster, OH
Teaching Assistant Aug 2025 - Dec 2025

- Reviewed and validated student-built statistical models, ensuring the validity of assumptions and interpretation of results.
- Communicated complex statistical concepts to non-technical audiences, strengthening data storytelling and stakeholder communication skills.

PROJECT

Climate-Driven Crop Yield Analysis| *Departmental Honor Awarded* Jan 2025 - Dec 2025
Senior Thesis

- Automated data ingestion from 5 heterogeneous sources, reducing manual preparation time by ~50%.
- Standardized disparate temporal and regional resolutions into unified county-level analytical tables.
- Built regression-based yield models (0.75–0.8 R^2) to analyze relationships between climate variables and crop productivity.
- Identified crop-specific monthly climate drivers and investigated underperforming segments through anomaly analysis.

Life Expectancy Analysis Jan 2025 - May 2025
Project Lead

- Analyzed FAO and World Bank data to evaluate relationships between dietary patterns and life expectancy.
- Built an interactive Tableau dashboard to communicate cross-country insights to non-technical audiences.
- Controlled for geographic bias and validated findings through supporting literature review.

EDUCATION

The College of Wooster Wooster, OH
B.A. Major: Statistical & Data science (Department Honor) | Minor: Environmental Studies *Aug 2020 - Dec 2025*
Cumulative GPA: 3.913 / 4.0