

ENRICO MADANI

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EDUCATION

University of Chicago

Bachelor of Science in Data Science; Bachelor of Arts in Economics

Chicago, Illinois
Expected Jun 2027

- GPA: 3.91/4.00 — Dean's List (2023–24); Odyssey Scholar

- Relevant Coursework: Statistical Methods, Machine Learning, Linear Algebra, Calculus III, Economics

Pradita Dirgantara High School

Science Track Diploma

Boyolali, Indonesia
Jul 2019–Jun 2022

- GPA: 97.25/100 — Silver Medalist, Hong Kong International Mathematical Olympiad (HKIMO) 2021

EXPERIENCE

Urbanism Lab, University of Chicago

Chicago, Illinois

Research Assistant (Prof. Emily Talen)

Sep 2024–Present

- Led end-to-end development of computer vision pipeline to analyze 12,000+ housing images, enabling clearer insights for urban policy teams assessing neighborhood development patterns.
- Conducted quantitative analysis linking housing typologies to socioeconomic factors across 200+ census tracts, identifying patterns that informed urban planning and resource allocation strategies.
- Labeled and managed data collection workflow using Google Street View API and coordinated with cross-functional research team to ensure data quality and project milestone delivery.

Center for Spatial Data Science, University of Chicago

Chicago, Illinois

Research Intern

Jun 2025–Aug 2025

- Designed and deployed an AI chatbot evaluation tool that iteratively improved research quality through automated scoring and structured feedback mechanisms.
- Collaborated with faculty to define evaluation criteria and success metrics; implemented guardrail mechanisms for AI that increased research rigor and causal clarity across 50+ student projects.
- Synthesized user feedback and performance data to refine chatbot algorithms, ensuring alignment with academic standards and user needs.

Summer Institute in Social Science Research Method, University of Chicago

Chicago, Illinois

Research Fellow

May 2024–Sep 2024

- Built a machine learning pipeline to transform historical Sanborn maps into 3D-ready contour outputs, accelerating archival data processing for research partners.
- Analyzed infrastructure and socioeconomic patterns across 900+ Illinois streets using spatial clustering techniques.
- Created standardized OpenStreetMap dataset with comprehensive documentation to improve reproducibility and data accessibility across research teams.

LEADERSHIP & ACTIVITIES

PERMIAS (Indonesian Students Association) Chicago

Chicago, Illinois

Design and Marketing Manager

Aug 2023–May 2025

- Drove 10% increase in Instagram engagement through data-driven content strategy, analyzing performance metrics to optimize posting schedules and content mix; grew follower base by 50+ within three months.
- Managed multi-channel marketing campaigns for 15+ cultural events with 500+ total attendees, coordinating cross-functional teams and ensuring consistent brand messaging across platforms.

Actuarial Science Quest UGM

Yogyakarta, Indonesia

Secretarial Division Staff

Sep 2022–Dec 2022

- Streamlined registration operations for 200+ participants from across Indonesia, implementing data validation processes that improved event logistics efficiency.
- Collaborated with 5-person team to design data-driven event management strategies, enhancing participant experience and operational workflow across semi-final and final competition rounds.

ADDITIONAL EXPERIENCE

University of Chicago

Chicago, Illinois

Research Member, DATA 11900 Final Project

Jan 2024–Mar 2024

- Built regression models analyzing socioeconomic predictors of international education outcomes
- Identified regional patterns using clustering techniques to inform policy recommendations.

SKILLS & INTERESTS

Technical: Python (NumPy, Pandas, Scikit-learn), R, SQL, Excel (MOS Certified), Machine Learning, Statistical Modeling, Data Visualization, Spatial Analysis (QGIS, GeoDa)

Languages: English (Fluent), Indonesian (Native)

Interests: Spatial data science, machine learning, urban research, data-driven strategy, economic development