Egshiglen (Egshi) Batjargal

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EDUCATION

Carnegie Mellon University - Heinz College of Information Systems and Public Policy Pittsburgh, PA
Master of Science, Public Policy and Data Analytics Aug 2025 – May 2027
Relevant Coursework: Database Management, Machine Learning, Optimization & Data-Modeling, Advanced AI&Business Strategy

Albion College Albion, MI
Bachelor of Arts, Economics and International Studies | Phi Beta Kappa | Summa Cum Laude Aug 2021 – May 2025

SKILLS

Programming Languages: SQL, R, Python (Pandas, Matplotlib, NumPy, PyTorch, Scikit-learn), STATA, Excel
Analytics: Tableau, Power BI, Interactive Dashboards, Data Visualization, A/B Testing, Root Cause Analysis, Statistical Analysis, Time Series Forecasting, Regression Analysis, Data Mining, Financial Accounting, Machine Learning, Excel Data-Modeling

PROFESSIONAL EXPERIENCE

The Sustainability Initiative at Carnegie Mellon University Pittsburgh, PA
Data and Programming Intern Oct 2025 - Present
- Conducted 57 cold calls to engage student clubs and secured 35 interviews for sustainability mapping, incorporating insights into the Voluntary Annual Review and coordinating campus-wide communication.
- Led a team of 5 interns to design sustainability storytelling focused on SDG goals, applying data analysis of events and partnerships to engage university stakeholders.
- Evaluated Tableau dashboard usability and redesigned the mapping in Python, utilizing data mining and Exploratory Data Analysis to create an interactive dashboard of campus SDG commitments.

Grow with Google Mongolia Ulaanbaatar, Mongolia
Data Analyst Intern June - Aug 2025
- Analyzed Mongolian public transportation data using R to evaluate user behavior and usability pain points, generating summary statistics and regression tables to support stakeholder recommendations.
- Designed and executed mixed-methods research, including 10+ semi-structured interviews and 50 Qualtrics surveys, applying quality control checks to ensure dataset reliability and data integrity.
- Authored a 15-page strategic report evaluating mobile app accessibility and heuristic UX via Figma, assessing the socio-economic impact of transportation systems on the local population.

PROJECTS

Credit Card Customer Segmentation: Evaluating kNN and Random Forest Jan – Feb 2026
- Developed and compared 2 machine learning models (Random Forest, kNN) on a credit card dataset to improve customer segmentation accuracy using Python.
- Delivered top-performing results for kNN (93.1%) and Random Forest (90.5%), demonstrating strong potential for identifying key customer segments.
- Performed hyperparameter tuning and feature scaling in R to optimize model sensitivity and identified key predictive features that differentiated customer behaviors.

Los Angeles Airbnb Market Analysis & Visualization Project Oct – Dec 2025
- Designed and implemented end-to-end market analysis of LA Airbnb datasets, extracting the effect of the home-sharing ordinance and external shocks on the market structure using SQL and Python
- Designed and deployed an interactive Python dashboard with advanced filters and visualizations, reducing manual reporting time by 50% and enabling self-service analytics for stakeholders to identify key trends in the market.

LEADERSHIP EXPERIENCE

Heinz AI Club, Carnegie Mellon University Pittsburgh, PA
Vice President of Governance & Board Operations Sep 2025 – Present
- Directed operations for 100+ graduate members, managing executive communications and project workflows for the organization.
- Orchestrated 7+ technical events and lab sessions, securing faculty and alumni experts to lead discussions on LLMs and AI tools.

AI Case Competition, Allegheny County Department of Human Services Pittsburgh, PA
Team Lead (2nd Place Winner) Sep 8 -13, 2025
- Engineered a predictive framework in Excel to model outreach efficiency, identifying 30-40% potential gains in service delivery
- Synthesized qualitative data using ATLAS.ti to transform stakeholder interviews into structured sentiment trends for county officials
- Designed a conceptual AI engine to automate resource allocation and streamline case management, effectively translating complex technical findings into actionable recommendations that bridged the gap between AI modeling and policy for non-technical leadership.