Nomin Khurelchuluun

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EDUCATION

Columbia University *School of General Studies* New York, NY
- *Bachelors of Arts: Data Science* May 2026
- *Relevant Coursework: AI, Statistical Inference, Probability Theory, Databases, Neural Networks & Deep Learning*

College of San Mateo
- *Associates of Science: Mathematics* San Mateo, CA
- *Dean's List, Magna Cum Laude* May 2022

PROJECTS

Deep Learning Based Recommendation Engine September 2025 - Present
- Building a personalized deep learning recommender system using neural collaborative filtering on the MovieLens dataset, integrating user and item embedding. Currently focusing on model training and reporting improvements compared to baseline collaborative filtering approaches.

Database for Spotify February 2024 - April 2024
- Built a SQL database system for podcast aggregation, ensuring smooth integration with Spotify and enhancing user experience through detailed modeling and design.
- Developed an intuitive interface for exploring podcasts by genre, popularity, and topics, supported by a recommendation engine that adapts suggestions based on user preferences.

CERTIFICATION
New York, NY
- IBM Data Science Certificate, Coursera Jan. 2025

PROFESSIONAL EXPERIENCE

Columbia Housing | *Student Operations Assistant* | New York, NY November 2024 - Present
- Analyzing large housing work-order datasets which includes ~30500 WOs using PowerBI and Python; completed independent data science project to identify patterns and overlaps, and proposed solutions to improve student housing by anticipating future needs, regarding vendors negotiations.
- Data managing on projects for field operations across 38 Columbia Housing buildings, improving processes and reporting to enhance student experiences; managed conference project data full-time in summer and part-time for academic semesters.
- Demonstrating professionalism, strong communication skills, and proficiency by utilizing MS Office, Asana, and Slack.

DSV Air & Sea US | *Supply Chain Assistant/Operations Support (Full-time)* | San Francisco, CA July 2022 - July 2023
- Served as a key liaison between internal teams and external stakeholders, ensuring objective alignment and monitoring KPIs for a luxury electric car client and the branch manager, achieving a 12% quarterly increase in invoice processing efficiency.
- Managed the invoice portal with precision, tracking outstanding over 100 invoices per day on CargoWise One, facilitating seamless communication with LLP, and reducing overdue payments through effective follow-up strategies.
- Created visually engaging daily performance reports with Business Excel 1.0 and PowerBI, leveraging PivotTables and formulas to provide actionable insights to the internal Accounting Team and trained new employees within the team.

RESEARCH EXPERIENCE

Quantitative Analysis of Reforestation and Grazing Policies in Mongolia | *Researcher* | New York, NY. August 2025 - Present
- Collaborating with a Columbia University faculty member to predict vegetation recovery under reforestation and livestock reduction policies using quantitative NDVI, livestock census, climate, and land-use data.
- Building Bayesian decision models and machine learning simulations to forecast policy outcomes and guide sustainable land management.

SICA LLC | *Research Assistant* | Ulaanbaatar, Mongolia June 2023 - August 2023
- Conducted surveys as part of a team, gathering insights on consumer behavior and preferences, and analyzed data using STATA to develop KPIs.
- Provided actionable recommendations that highlighted strategic opportunities, reducing the client's mall opening costs.

LEADERSHIP EXPERIENCE

Department of Statistics(Columbia University)| *Tutor* | New York, NY August 2025 - Present
- Undergraduate Help-Room Tutor, assisting students with 'Linear Regression' and 'Intro to Statistics' and supporting coursework through scheduled sessions.

Associated Students of College Of San Mateo | *Student Senator* | San Mateo, CA May 2021 – May 2022
- Advocated for 13,180 students by collaborating with faculty, staff, and administrators on college committees to address campus issues and drive initiatives, while organizing 20 annual events that enriched student experiences and fostered a sense of belonging.

SKILLS AND INTERESTS

Hard Skills: Machine Learning, Python, SQL, PowerBI, Business Excel, Key Point Indicator Management, Payroll, Supply Chain
Soft Skills: Collaboration, Problem-Solving, Critical Thinking, Quick Learner, Attention to Detail, Communication, Team Player
Interests: Volleyball, Chess, Hiking