

Selenge Tulga

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Education

University of Rochester

December 2024

M.S Data Science (Computational track)

- Coursework: Data Mining, Computation Statistic in R, Machine learning, Tools for Data Science, Data Science Scale, Database

Mongolian University of Science and Technology

June 2017

B.S. Computer Science

- Awards: Academic excellence(GPA: 3.89/4, Top 1 of class 2017)
- Dean's list (2014-2015, 2015-2016, 2016-2017)

Projects

My Voice application

- Developed and implemented an iPad application that uses Language Acquisition which focuses on improving independent and spontaneous communication for give + 50 non-verbal individuals with autism and other developmental disabilities.
- **Won Innovative application award** out of 100+ competitors in 2021

EDA: Open Asteroid and IMD Movie Dataset

- Used Python and R programming language to analyze over 100K+ rows of data.
- Discovered patterns, created visualization, tested hypothesis and built 2 regression models that achieved 95% metric, which are 50% better than the baseline and benchmark

Exploring sides of Two conflicts On Reddit and Weibo ([link](#))

- Extracted from data from users comments in Reddit and Weibo, generated data to Python, applied Roberta and Llama model analyze to sides of wars
- Used Python, Reddit API, Sentimental analysis , Regression models, Tableau and PowerBI

Experience

Zevtronic LLC, Software engineer

Jan 2020 -July 2023

Information technology-based healthcare service start-up company works for integrating data from government and profit hospitals.

- Created and developed database ingestion(Integrate.io) that improved processing speed by 70%
- Developed and implemented database structure of healthcare software for 52 hospitals according to own business objectives and needs.
- Technologies used: SQL, Php, Java, Javascript, PowerBI, Tableau

Ulaanbaatar Railway JVC, Software engineer

July 2017-July 2023

Leading transport organization and handles more than 70 percent of Mongolia's import and export freight transportation.

- Transferred, manipulated, organized, maintained data from over 40 locomotive signal systems (SIRDP-E)
- Developed and implemented backend of locomotive repair system and passengers booking system that increase yearly revenue by 300%
- Technologies used: Oracle, MySQL, MongoDB, Php, Java

Skills

- Oracle, MySQL, MongoDB, Php, Java, Javascript,
- R, Python, Numpy, Pytorch, Tensorflow, Pandas, Spark, PowerBI, Tableau
- Github, Microsoft office