

Ai Shiteru

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Profile

- Experience in data mining, machine learning, artificial intelligence, and Natural Language Processing (NLP)
- Quality-driven with a keen interest in collaboration, implementing customer-focused solutions, and leveraging quantitative data to make impactful decisions
- Proficient in developing algorithms and models that can understand and analyze text data

Education

Master of Applied Computer Science Sept 2028 - May 2032
Concordia University, Montreal, Quebec

Relevant courses: Statistical Natural Language Processing, Information Retrieval & Web Search, Principles of Machine Learning, Natural Language Analysis

Bachelor of Engineering, Computer Science Sept 2023 - May 2027
Tokyo Institute of Technology, Tokyo, Japan

Technical Skills

- **Programming Languages:** Python, Java, C, C++, C#, R, Visual Basic, JavaScript, HTML/CSS
- **Database:** MySQL, PostgreSQL, MongoDB, DynamoDB
- **Frameworks:** NumPy, Keras, pandas, PyTorch, TensorFlow, scikit-learn, Hadoop
- **Tools:** Git, Jira, Jupyter, LaTeX
- **Data Visualization:** ggplot, matplotlib, seaborn, D3.js, plotly, Tableau
- **Others:** Neural networks, CNN, RNN, NLP, sequence models, computer vision, data analysis, anomaly detection, classification, regression, clustering

Career-related Experience

Data Acquisition Specialist Intern Sep 2031 - Dec 2031
Microsoft Research Lab, Montreal, Quebec

- Collaborated with researchers to acquire and process new sources of data for training and testing translation systems
- Configured, trained, and evaluated builds and models using RNN and NLP techniques
- Investigated and fixed bugs in training, data processing code, and SQL queries
- Improved training data to significantly increase BLEU scores by 18%, therefore releasing a new English-to-Japanese translation system

Selected Projects

LinkedIn Content Generator

- Collaborated with 5 developers to develop an application that generates satirical LinkedIn content using Python, Hadoop, Keras, ggplot, seaborn, and other NLP techniques

- Leveraged data mining, feature analysis, and other machine learning techniques for classifying popular posts using data from 500+ LinkedIn posts in English
- Cleaned, parsed, and segmented LinkedIn content based on words, emojis, and hashtags associated with popular posts
- Documented test cases and prepared

Fantasy Football Model

- Aggregated and prepped 5 years of NFL fantasy football projection data from 5 independent sources in MySQL database
- Created random forest model using scikit-learn to combine disparate sources into one projection that outperformed the mean absolute error of the next best projection by 18%

Magic the Gathering (MTG) price listing site

- Collaborated with developers to deploy and update the interactive web-based application to compare MTG price data and item listings with MongoDB, Express, React, and Node.js
- Compiled pricing data for competitive analysis with web scraping methods (Python, BeautifulSoup)
- Developed dashboard for 500+ daily users to visualize pricing data history with Tableau

Licenses & Certifications

Deep Learning Specialization 2030
 DeepLearning.AI, Coursera

Machine Learning Course 2029
 Stanford University (Andrew Ng), Coursera

Other Work Experience

Warehouse Associate Jan 2029 – Apr 2031
 Walmart, Montreal, QC

- Identified, separated, labeled, and palletized 25+ merchandise daily according to safety, productivity, and quality standards
- Inspected and recorded merchandise on the database accurately and thoroughly
- Communicated merchandise shortages, violations, and hazards to managers quickly

Languages

English (Spoken/Written), Japanese (Spoken/Written Kanji)