Jessica G. Tiu

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EDUCATION

Duke University, Durham NC, Master of Science, Computer Science, GPA: 4.0/4.0   Aug 2022 - May 2024
University of the Philippines, Diliman, Bachelor of Science, Mathematics, Magna cum laude   June 2011 - June 2016

TECHNICAL SKILLS

Programming Languages: Python, SQL, TypeScript, HTML, Vue.js, MATLAB
Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, PyTorch, Scikit-learn
Cloud Computing: Amazon Web Services, Google Cloud Platform (BigQuery, Cloud Storage, Compute Engine)
Others: Git, MongoDB, Confluence, Jira, SharePoint

PROFESSIONAL EXPERIENCE

Thinking Machines Data Science, Manila, Philippines

Natural Language Processing Team Lead   Apr 2020 - June 2022
- Managed a team of four in research and feasibility studies in the natural language processing, search, and information retrieval domains for Thinking Machines' document intelligence solution https://thinkingmachin.es/document-intelligence/
- Mentored machine learning researchers in software engineering, experiment design, and project management

Machine Learning Researcher   Jan 2018 - June 2022
- Developed a search engine and knowledge management platform for a global intergovernmental organization to facilitate economic and trade research across 400 multi-page documents **(Elasticsearch)**
- Developed machine learning solutions for a top investment company in Singapore
  - Biotech insights platform that leverages natural language processing and deep learning **(BERT, PyTorch)** to track daily life science news developments across 10+ publications and news sources
  - Industry classifier that uses natural language processing and 7 levels of multilabel classification to measure portfolio risk **(Pandas, Scikit-learn, Seaborn)**
- Partnered with United Nations Development Programme to trace 3 years of budget plans and proposals across 20 agencies in the Philippine government
- Led a team in a strategic data assessment for one of the Philippines' largest real estate developers, creating real-time sales and marketing dashboards

Data Analyst   July 2016 - Dec 2017
- Taught sessions on deep learning and convolutional neural networks for the Philippine Department of Science and Technology's Deep Learning Workshop 2017
- Executed exploratory data analysis of business and residential customer segments for a national utility provider

PUBLICATION

Identifying chronic disease patients using predictive algorithms in pharmacy administrative claims: an application in rheumatoid arthritis
Journal of Medical Economics (JME) 2021

AWARDS

Oblation Scholarship, full-ride merit scholarship to attend University of the Philippines
Winning team in HackDuke: Code for Good 2023 https://devpost.com/software/pillbox-alarm