Michal Malyska

ML Technical PM

https://michalmalyska.com

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https://github.com/MichalMalyska

Skills -

Agile, Waterfall

User Stories, Journey Mapping, Customer Discovery & Feedback

Stakeholder management,

Requirements tracking, KPI creation & tracking

Architecture Decision Records,

Roadmapping Documentation creation

Programming

Python

PyTorch, TensorFlow, PyMC3

SpaCy, NLTK, Transformers

Pandas, Scikit-learn, XGboost

tidyverse, RSTAN, brms

SOL

JavaScript

TypeScript

Machine Learning -

Natural Language Processing

Semi-Supervised Learning

Information Extraction

Statistical Learning

Explainable ML

Knowledge Graphs

Machine Learning for Healthcare

Other -

>_ Git, Bash

Docker, MLFlow, WandB

Redis, AWS EC2 / S3, Snowflake

UMLS, SNOMED-CT

Work Experience

Semantic Health

Machine Learning Lead

Jan 2021 - Dec 2022

· Spearheaded ML product roadmapping and delivery, expanding the core product into a new market (US)

· Created multiple new product lines based on customer calls and product insights from internal QA efforts leading to increases of 100k ARR per contract.

· Roadmapped and oversaw implementation of a new MLOps initiative to allow for better data and model monitoring

· Developed extensive model and prediction fallbacks allowing us to eliminate the need for on-call support on the ML side

· Created a custom multi-armed bandit model deployment scheme eliminating guesswork and quadrupling ML deployment velocity to production (monthly to weekly model release cadence)

· Led code review and tech debt improvement sprints across the entire python stack.

Semantic Health

Machine Learning Scientist

Jun 2019 - Dec 2020

· Joined as first (and only technical) employee - architected and built the entire ML stack setting the foundation for the company's AI capabilities

· Conducted ML feature discovery calls with end users, resulting in the development of simple ML models that significantly enhanced product performance

· Planned and conducted data and label quality experiments identifying problems, addressed those by creating a novel, ontology-graph based label smoothing algorithm increasing downstream model performance by 35%

· Authored a series of Architecture Decision Records that still serve as the model for decision documents for the company

University of Toronto

Sessional Lecturer

2020-2023

· Developed comprehensive educational materials and delivered engaging instruction for a range of undergraduate and graduate courses in Statistics and Machine Learning.

· Communicated sophisticated technical topics to a non-technical audience

Education

University of

Master of Science - Statistics

2022

Toronto

Actively engaged in reasearch leading to Publications and a Research

Visitor position at St Michaels hospital in Toronto

Recognized for expertise, was offered to teach my own cohort as a sessional lecturer in Machine Learning

University of

Honours Bachelor of Science - Statistics

Toronto

4.0 GPA in Statistics, 3.78 overall

President of Statistics Union - brought it from a dead union (won with 14 total votes for a president of a union with 6000 members)

to multiple yearly events with attendance in the hundreds

Competitions

ASA Datafest

1st. Place. Mentor

2017

Created a business case from click data for Expedia, aimed at improving the suggestion engine and customer retention, served as a mentor in the subsequent years

McKinsey 1st. Place

Created a business case and an MVP aimed at re-routing low urgency

Open Data Challenge

patients to hospitals with lowest estimated combined travel and wait

time