

Anna Orosz (she/her)

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Education

University of Pennsylvania | Master of Science in Engineering in **Data Science**

 December 2021

Relevant Coursework: Deep Learning, Artificial Intelligence, Applied Machine Learning, Computational Linguistics, Big Data Analytics, Databases, Statistics for Data Science, Master's Thesis (Research)

University of Pennsylvania | Bachelor of Arts in **Mathematics** and **Computer Science**

Relevant Coursework: Algorithms & Data Structures, Unix, Python, Computer Architecture, Statistics for Data Science, Graph Theory, Complex / Real Analysis, Linear / Abstract Algebra, Game Theory, Calculus, Language and Automata

Professional Experience

LinkedIn | **Machine Learning and Relevance Engineer** | New York, NY

March 2022 – Present

- Member of Knowledge Graph Team (previously Organization Standardization Team)

LinkedIn | **Artificial Intelligence - Machine Learning Engineer** Intern | New York, NY

May 2021 – August 2021

- Built company embedding space for LinkedIn's ~20 million organizations
- Preprocessed data in *Scala* with *Apache Spark* to create directed weighted graph with ~100 million edges
- Trained word2vec (gensim) and GNN (graphSAGE) models to produce org embeddings in 50-d using *TensorFlow*
- Used objective (e.g. logistic regression) and subjective (Appen) evaluation on embeddings

MBition – Mercedes-Benz Innovation Lab | **Artificial Intelligence** Intern | Berlin, Germany

June 2020 – August 2020

- Built time series model detecting & classifying data outages among millions of Mercedes-Benz data
- Researched and evaluated SOTA approaches (SARIMAX, LSTM, PROPHET) in *Azure Databricks* with *PySpark*
- Innovated on frontline of automotive world and develop next generation of self-driving Mercedes-Benz automobiles

LogMeIn | **Machine Learning** Intern | Budapest, Hungary

January 2018 – July 2019

- Developed award-winning NLP Hackathon project for training QA systems using state-of-the-art Neural Networks
 - Won 1st prize Tech Innovation + Audience favorite prize + 2nd place Best Business Value Innovation prizes
- Researched term weighting methods, class hierarchy models facilitating email automation for Top 5 Indian Bank
- Enriched Q&A text corpus in languages (VN, GE, IN) by building sophisticated web-scraping services for Bold360 AI
- Specialized in Applied Research for Natural Language Processing, in *Python* with *Keras*, *Tensorflow*, *scikit-learn*

Facebook | **Software Engineering** Intern | Menlo Park, CA

May 2017 – August 2017

- Modernized internal client-library tool Hyperloop completing bulk data transfers for Facebook's Data Scientists
- Overhauled internal tool COPTA for copying directories across *HDFS* clusters and FB's data centers
- Engineered detailed *Scuba* tables for Hyperloop and COPTA (100+ petabytes data)
- Operated with multi-tenancy, network utilization, scheduling, cross-dc connection-pooling in *C++*

RapidMiner | **Software Developer** Intern | Budapest, Hungary

May 2016 – August 2016

- Developed software to make **Data Science** accessible to RapidMiner's customers
- Built operators RapidMiner Studio designed to process, analyze and alter data locally
- Designed Operators in RapidMiner Radoop to process data on large scale with Apache Hadoop with Spark jobs

Research

Generating Text-based Adventure Games

- Conducted research as a member of Prof. Christopher Callison-Burch's Natural Language Processing lab at UPenn
- Built Language generation model with training texts extracted from text-based adventure games
- Used GPT-3 to produce text with a user-defined set of characteristics
- Applied fine-tuning, few-shot learning along a multitude of engines to auto-generate human-like content