Anna Orosz

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Education

University of Pennsylvania | Bachelor's degree in Mathematics and Computer Science

May 2021

Relevant Coursework: Machine Learning, NLP, Algorithms & Data Structures, Unix, Python, Computer Architecture, Graph Theory and Algorithms, Abstract & Linear Algebra, Analysis, Game Theory, Calculus, Language and Automata, Economics

Professional Experience

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

June 2020 – present

- Build time series model detecting & classifying data outages among millions of Mercedes Benz data
- Evaluate state-of-the-art approaches (SARIMAX, LSTM, PROPHET) in Azure Databricks environment with PySpark
- Innovate 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 Deep Neural Networks
 - o 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, etc.) by building sophisticated web-scraping services for Bold360 AI
- Specialized in Applied Research for Natural Language Processing, worked 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 Scietists
- Overhauled internal tool COPTA for copying directories across *Hadoop Distributed File System* clusters and FB's data centers
- Engineered detailed Scuba tables for Hyperloop and COPTA as (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

- Used Data Science to program operators in Studio designed to process, analyze and alter data locally
- Designed Operators in Radoop in Spark scripts to process data on large scale with Apache Hadoop
- Repaired bugs and designed new features in Java while maintaining a stable infrastructure

Projects

Time series model June 2020 – Present

Create seasonal and trend-sensitive time series model assessing Mercedes Benz system failures. [Python]

Standardized Testing Al

March 2020 – May 2020

Built DistillRoBERTa model for answering standardized testing Science questions in multiple-choice style. [Python, TensorFlow]

Chatbot November 2018 – March 2019

Established Question Answering system using BERT to serve Bold360 Al's clients. (3x Hackathon winner) [Python, TensorFlow]

Youtube Spam Comments Detector

November 2017

Classified comments as ham or spam with Naïve Bayes and SVM models by using TF-IDF transformation. [Python, scikit-Learn]

County Election Predictor

September 2017

Developed and compared NN & SVM models predicting 2016 election results by county. [Python, Keras, scikit-Learn, TensorFlow]

Image Classification

May 2017

Fine-tuned NN model trained on the ImageNet dataset to classify images of UPenn/non-UPenn logo.

[Python, TensorFlow]

Leadership Experience

CIS 530 - NLP class: Incoming *Teacher's Assistant* in graduate-level Natural Language Processing class at Penn in Fall 2020

The Daily Pennsylvanian: Team Lead Machine Learning Engineer at the UPenn school newspaper's Analytics department

AΩE Engineering Sorority: Mentor to students in a society of women engineers whose sole purpose is girls' advancement in STEM

Tutoring Center @UPenn: Tutor to fellow undergraduates for Computer and Information Science & Mathematics classes

Science is a Woman Thing: Initiator & Organizer for Hungary's 1st STEM conference for hundreds of high school female students

Proficiencies and Passions

Prog. Languages: Java, Python, SQL, C++, C, OCaml, Bash/Shell, HTML, Assembly Language

Platforms/Modules: scikit-learn, Keras, TensorFlow, PySpark, Linux/Unix, Git/Mercurial, JupyterHub/Lab, Azure Databricks

Languages: German (Fluent), Hungarian (Native Speaker), French (Intermediate)

Interests: Natural Language Processing, Autonomous Vehicles, Machine Learning, Al & Data Science, Cloud services Activities & Hobbies: driving my Piaggio, horseback-riding, bouldering, salsa-dancing, ice-skating & skiing, cinematography