

# Anna Orosz

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## Education

University of Pennsylvania | Master of Science in Engineering in Data Science  December 2021

University of Pennsylvania | Bachelor of Arts in Mathematics and Computer Science  May 2021

Relevant Coursework: Artificial Intelligence, Machine Learning, Computational Linguistics, Databases, Statistics for Data Science, Algorithms & Data Structures, Unix, Python, Computer Architecture, Graph Theory & Algorithms, Analysis, Abstract & Linear Algebra, Game Theory, Calculus, Language and Automata, Micro- and Macroeconomics

## Professional Experience

**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
- Evaluated state-of-the-art approaches (SARIMAX, LSTM, PROPHET) in Azure Databricks environment 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 Deep Neural Networks
  - Won 1<sup>st</sup> prize Tech Innovation + Audience favorite prize + 2<sup>nd</sup> 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 Scientists
- 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 – August 2020

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

**Standardized Testing AI** 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 AI'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 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:** Teacher's Assistant in graduate-level Natural Language Processing class at Penn in Fall 2020

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

## 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, AI & Data Science, Cloud services

**Activities & Hobbies:** driving my Piaggio, horseback-riding, bouldering, salsa-dancing, ice-skating & skiing, cinematography