

Oliver Spohngellert

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WORK EXPERIENCE

MAJOR LEAGUE BASEBALL | MACHINE LEARNING ENGINEER

May 2021 – Present | New York, NY

- Built end to end classifier for official scoring at 95% accuracy with < 0.5s latency (scikit-learn, seldon, BigQuery).
- Deployed a personalized video recommendation system API for top hitting, pitching, and fielding plays. Used Logistic Regression and Feed Forward Neural Networks to build ranking system (GCP, scikit-learn, kubernetes, argo workflows).
- Developed algorithms for comparing player batting stances with user stances during a hackathon (MediaPipe, FastAPI).
- Researched zip code based team affinity using historical article view data (Jupyter, BigQuery).
- Implemented time series classification on skeletal data to determine whether a batter attempted a checked swing.

DEEP HEALTH | MACHINE LEARNING INTERN

May 2020 – Aug 2020 | Cambridge, MA

- Designed an error analysis pipeline, enhancing understanding of Cancer Detection model (pandas, numpy, matplotlib).
- Developed a system for aggregating cancer annotations, comparing results, generating follow-ups (python, javascript).

NORTHEASTERN NDS2 LAB | RESEARCH ASSISTANT

Jan 2019 – Feb 2020 | Boston, MA

- Implemented Recurrent Neural Networks (RNNs) to classify users of IoT systems using exclusively network traffic.
- Engineered features and implemented unsupervised classification models to detect self-propagating malware.

NETRA | DEEP LEARNING/MACHINE LEARNING CO-OP

Jan 2018 – July 2018 | Boston, MA

- Optimized download, upload, and labeling sections of data pipeline via multiprocessing to decrease training time for the object detection system from 4 weeks to 2 weeks.
- Trained logo detection model using transfer learning, increasing number of classes by 500.
- Researched NLP approaches for content safety in videos, using FastText and Word2Vec models on video descriptions.

INTUIT | SOFTWARE ENGINEER CO-OP

Jan 2017 – July 2017 | San Diego, CA

EDUCATION

MASTER OF SCIENCE IN DATA SCIENCE NORTHEASTERN UNIVERSITY

May 2021 | Boston, MA

GPA: 3.8/4.0 | **Relevant Courses:** Data Science Capstone, Deep Learning, Reinforcement Learning, Supervised Machine Learning, Unsupervised Machine Learning, Statistical Methods in Computing, Data Management, Algorithms

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINOR IN MATH NORTHEASTERN UNIVERSITY

May 2019 | Boston, MA

GPA: 3.73/4.0 | **Relevant Courses:** Large Scale Storage/Retrieval, Software Development, Linear Algebra and Differential Equations, Object Oriented Design, Probability and Statistics

SKILLS

Programming: python, R, pandas, numpy, pytorch, keras, sklearn, matplotlib, argo, seldon, git, SQL, linux/unix, GCP

Concepts: Deep Learning, Supervised/Unsupervised Learning, Functional Programming, Software Development, NoSQL

PUBLICATIONS

The House That Knows You: Extracted data from IoT network traffic logs to classify the user of the IoT devices during a given time period, with top overall F1 score of 0.86. <https://arxiv.org/abs/1908.00592>

INTERESTS

Competitive Chess (1714 USCF), Data Privacy, Urbanism, Environmentalism