

Johanna Männistö

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I am a Master's student studying Language Technology and Data Science at the University of Helsinki. I currently leverage my background in Linguistics and programming to find solutions to challenges in NLP, and I am looking to build a career using data-driven models.

Education

University of Helsinki

Helsinki, Finland

Masters in Language Technology | Cum.GPA: 4.5/5.0

August 2022 - Current

- **Courses** (*In Progress = IP*): Machine Learning, Neural Machine Translation, Deep Learning (*IP*), Speech Synthesis & Recognition (*IP*), Data Science, Computational Morphology, Computational Semantics (*IP*), NLP for Linguists (*IP*), Command Line for Linguists
- **Planned Spring 2023 Courses:** Approaches to Natural Language Understanding, Advanced Machine Learning, Computational Syntax
- **Key Course Experience**
 - **Machine Learning (Autumn 2022):**
 - Implemented supervised and unsupervised machine learning models using Python and scikit-Learn
 - Acquired hands on experience of fundamental machine learning principles and concepts such as feature selection, model selection, parameter tuning, loss functions, bias-variance trade-off, etc.
 - **Neural Machine Translation (Autumn 2022):**
 - Trained and evaluated mono- and multilingual NMT models (RNN & Transformer architectures) using OpenNMT-py
 - Collected, aligned, and preprocessed text and corpora data ranging from thousands to millions of sentences long for translation models using tools such as OpusFilter
 - **Deep Learning (In Progress, Winter 2023):**
 - Implement CNNs and RNNs using PyTorch in course assignments
 - Establish strong foundation in Neural Network theory
 - Final course project underway in image classification

University of Washington

Seattle, WA

BA in Linguistics | Cum.GPA: 3.92/4.0

September 2014 - June 2018

- Graduated Magna Cum Laude, with Minors in French and Finnish
- **Relevant Bachelor's Courses:** Data Structures & Algorithms, Probability & Statistics, Logic, Computer Programming I, II, Calculus I, II, III

Projects

Weather Event Machine Learning Project

Helsinki, Finland

Group Project

Autumn 2022

- Partnered with two peers to train a binary and multi-class classifiers on a data set of atmospheric measurements
- Performed exploratory data analysis to characterize the problem and implemented statistical and unsupervised feature selection methods
- Trained and evaluated several classifiers for the binary and multi-class task, accommodating an imbalanced set for the multi-class task

Text Classification with ArXiv

Helsinki, Finland

Group Project

Autumn 2022

- Processed ArXiv abstracts using scikit-learn and NLTK
- Trained and optimized KNN model using scikit-learn to classify between 19 document categories

Experience

Washington Environmental Council

Seattle, WA

Events & Outreach Associate

July 2021 - July 2022

- Collaborated on a multi-organization team to develop and present monthly webinars, driving 43% of attendance
- Co-led and organized the organization's first hybrid fundraiser - raising over 5 times the anticipated revenue

Make-A-Wish Alaska & Washington

Seattle, WA

Wish Coordinator

March 2019 - May 2021

- Honed project and time management skills through concurrently coordinated the granting of approximately 60 wishes at a time
- Built strong communication skills by collaborating with 90+ volunteers, alongside individual and corporate donors, vendors, wish families, and staff

Skills

- Programming** Python (Pandas, NumPy, scikit-learn, PyTorch, NLTK, matplotlib, seaborn, spaCy), R, Java
- Miscellaneous** OpenNMT-py, Git, Microsoft Office, Salesforce
- Languages** English (Native), Finnish (B2)