Anuk Centellas

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Education

University of Washington
MS in Computational Linguistics — *Sept 2025 – Present*

Western Washington University
BS in Mathematics/Computer Science, BA in Linguistics — *Sept 2021 – June 2025*
Honors Interdisciplinary Studies Minor, Outstanding Graduate in Linguistics

Projects

Elizalike Chatbot — Jan 2025
Natural Language Processing — *Python*
- Used regular expressions to handle personal deixis for all 1st and 2nd person subject pronouns, and all forms of the verb be
- Implemented keyword recognition in user input to prompt a predetermined response, or a response that retains a part of the input

Phoneme Classifier — Nov 2024
Deep Learning Project — *Python, Scikit-learn*
- Used MLPClassifier to create an ensemble model of twelve neural networks
- Used probabilistic voting to classify a vector representation of audio as a phoneme
- Increased ensemble model performance by giving top performing NNs more votes
- Performed extensive hyperparameter tuning and comparison to other model types

Arbitrarily Deep Neural Network — Oct 2024
Deep Learning Project — *Python, NumPy*
- Pair programmed to implement a neural network from scratch, using NumPy and argparse
- NN can train on classification and regression data, handles minibatching, and has a verbose mode
- Based on user specified frequency, program evaluates NN on the dev set and prints performance

Experience

Language Revitalization Lab — March 2025 – Present
DARLing — *Western Washington University*
- Part of Dr Maura O'Leary's Documentation, Analysis, and Revitalization in Linguistics lab for the Athabaskan language Hän
- Collaborating with other students on the morphological transducer team, continuing the progress that has already been made
- Inputting nouns and verbs into the transducer code, finding and correcting errors to ensure it will work as a translator

Machine Learning Research — April 2024 – June 2025
Hutch Research — *Western Washington University*
- Part of Dr Brian Hutchinson's Machine Learning research group
- Working on a NLP project in collaboration with the Speech Pathology department.
- Specifically interested in transcribing toddler speech from recordings

Technical Skills

Python, Java, NumPy, Pandas, Scikit-learn, Git, Streamlit, Unix, Vim, LaTeX, Advanced Mathematics, VSCode, native speaker of English, Spanish, and Catalan

Coursework

Algorithms and Data Structures, Machine Learning, Calculus I, II, III, Linear Algebra, Statistics and Probability, Linguistic Analysis, Phonetics, Phonology, Syntax and Morphology, Semantics and Pragmatics, Spanish Linguistics, Computational Linguistics, NLP, Shallow Processing Techniques for NLP