MILLA NIELSEN

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EDUCATION

University of California, Los Angeles (UCLA) **Los Angeles, California**

Bachelor of Science in Statistics and Data Science *June 2025*

- Data Science Engineering minor
- GPA: 3.87/4.0
- Relevant course work: Algorithms, Data Mining, Data Structures, Optimization, Regression, Statistical methods/modeling, Probability Theory, Linear Algebra and Calculus of Single/Multiple Variables, Machine Learning in Python, Linear Models, Generative AI, Markov chain Monte Carlo methods, Deep Learning

EXPERIENCE

NATIONAL STUDENT DATA CORPS - UCLA **Los Angeles, California**

Co-President *February 2023 - Present*

- Fostered an inclusive data science community of over 500 students ensuring regardless of previous skills and qualifications, all students were able to get data science experience boosting general membership by 200 people (80% increase)
- Developed and promoted 10 quarterly student data science projects, industry guest talks, and hackathons for UCLA students to be introduced to data science and machine learning topics with peer help
- Led and attended workshops on topics such as Data Science, Tableau, NLP, Introduction to Python, and Introduction to Machine Learning
- Designed a website to be a central location for data science-related career and educational resources for students and social media posts using Canva to advertise free data science events to the UCLA community

UCLA DATA RESOLUTIONS **Los Angeles, California**

Head of Consulting *March 2024 - Present*

- Facilitated communication between five quarterly consulting clients and project teams of 7 students to provide data-backed solutions to LA-based startups by leveraging talent of budding data scientists and analysts at UCLA
- Recruited and trained 20 new project team members and 15 new industry clients

PIONEER CENTRE FOR AI - UNIVERSITY OF COPENHAGEN **Copenhagen, Denmark**

Intern *July 2024 - August 2024*

- Developed and optimized a machine learning model using XGBoost to predict Alzheimer's Disease using MRI biomarkers, implemented 10-fold cross-validation and grid search to fine-tune hyperparameters, evaluated model performance, and visualized results with ROC curves
- Extracted features of MRI scans using a 3-D Convolutional Neural Network with PyTorch taking advantage of transfer learning to use pre-trained weights resulting in a 0.84 validation AUC score when classifying between scans with and without Alzhiemer's Disease

UNIVERSITY OF CALIFORNIA **Los Angles, California**

Data Science Lab Assistant *August 2023 - June 2024*

- Trained and benchmarked, OpenAI's Whisper neural net model for use in transcribing and translating Russian media clips using Python collaboratively on Github
- Created R and Python graphs and charts using libraries ggplot2 and Matplotlib to compare effectiveness of sizes small, medium and large of the Whisper model based on parameters such as word error rate and BLEU score
- Designed a pipeline on a UCLA Linux GPU system to translate and transcribe using Whisper over 1000 multiple hour long Russian audio clips for use in media bias research

YWCA BERKELEY/OAKLAND **Berkeley, California**

Data Analytics Intern *August 2017 - June 2021*

- Served on a data analytics team to assess social media campaign impact and to inform future campaigns resulting in a 20% increase in follower engagement with posts
- Collected data from social media platforms into Excel sheets and designed slides to present data visually via Excel-make graphs and other visualizations to social media team
- Created virtual flyers, slides and twice weekly social media posts and implemented social media ad campaigns to promote YWCA programming on topics including financial literacy for women, human trafficking awareness and elimination of racism

SKILLS

- Coding languages: C++, R, and Python
- Proficient user of GitHub, R studio, Xcode, Linux, Google Colab, Tableau, Jupyter Notebook, Mathematica, MATLAB, PyTorch, Scikit-learn, ggplot2, Matplotlib, Tidyverse, NumPy, Pandas, XGBoost, Tensorflow, and Canva

PUBLICATIONS

- Nielsen, M. E.; Nielsen, M.; Ghazi M. M.; "Assessing the Efficacy of Classical and Deep Neuroimaging Biomarkers in Early Alzheimer's Disease Diagnosis", In SPIE Medical Imaging 2025: Image Processing; (In press).

ADDITIONAL INFORMATION

Awards

- UCLA ASA Datafest 2024 - Finalist
- UCLA ASA Datafest 2023 - Best Use of External Data honorable mention