

# HUGO MERRITT

## Junior Machine Learning Engineer

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📍 Pittsburgh, PA

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## WORK EXPERIENCE

### Machine Learning Intern

#### Duolingo

📅 2023 - 2024

📍 Pittsburgh, PA

- Fine-tuned a pre-trained language model with Keras, reducing memory usage by 398MB and saving 6 hours/week in model retraining
- Prototyped a neural network with PyTorch categorizing over 51,804 user-generated sentences, improving the speed of sentence analysis by four hours per cycle
- Designed a predictive model for user engagement using Scikit-Learn, saving the marketing team 14 hours per campaign by streamlining their targeting process
- Deployed machine learning models to production using TensorFlow, slashing deployment time from weeks to hours and saving the company upwards of \$3,996 in operational costs

## PROJECTS

### Kaggle Competition

#### Participant

📅 2022

- Engaged in collaborative analysis using Jupyter Notebook, enabling real-time code sharing and data exploration among team members
- Created interactive visualizations using Seaborn, effectively communicating complex data patterns to non-technical stakeholders
- Built a convolutional neural network for image classification tasks using Keras, achieving a classification accuracy of 88% on the test dataset
- Ranked in the top six out of 128 participants by developing a predictive model that enhanced forecast accuracy

### Academic Paper

#### Individual Class Researcher

📅 2021

- Conducted rigorous literature reviews and applied statistical analysis using Pandas, synthesizing existing research findings
- Presented findings with Google Colab during discussions, showcasing the practical application of theoretical concepts
- Developed six comprehensive visual representations of data analysis results with Matplotlib, enhancing the paper's clarity
- Utilized NumPy for data manipulation and matrix operations, aiding the integration of diverse datasets and analysis techniques in the research

## CAREER OBJECTIVE

Motivated junior machine learning engineer, bringing firsthand experience from a dynamic internship and a proactive role in class research, aiming to further Skild AI's objectives in AI and machine learning. With an understanding of applying machine learning techniques to practical issues, I'm ready to tackle the challenges at Skild AI and contribute to its success.

## EDUCATION

Bachelor of Science

Machine Learning

**Carnegie Mellon University**

📅 2020 - 2024

📍 Pittsburgh, PA

## SKILLS

- TensorFlow
- PyTorch
- Scikit-Learn
- Keras
- Jupyter Notebook
- Pandas
- NumPy
- Matplotlib
- Google Colab
- Seaborn