Ilia Ilmer, **PhD**

Houston, Texas

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Skills

Programming Languages:	Python (PyTorch, Transformers, Scikit-Learn, Pandas, NumPy), Julia, C/C++
Scientific Computing:	Machine learning, deep learning (LLMs, NLP, image processing, computer vision) scientific computing
Tools:	Git, Bash and ZSH, SQL, AWS (SageMaker, Athena), Hadoop, Spark

Work Experience

Clio	*Remote, Houston, TX, USA*
Machine Learning Engineer	*June 2024 – Present*

BILL | *Houston, TX, USA*
Sr. Machine Learning Engineer | *Feb 2023 – June 2024*

- Utilized Large Language Models (Llama-2, ChatGPT, Mixtral, Mistral) for on- and offline document processing (understanding, summarization)
- Improved document matching algorithms, driving revenue up by over $3 million monthly
- Uncovered and drove revenue opportunity via document content mining (over $5 million monthly opportunity)
- Analyzed large text corpora to extend BILL's NLP capability for document field extraction
- Developed and improved field extraction model, raising accuracy by 3-15 bps per field without latency decrease

Bill.com | *New York, NY, USA*
Machine Learning Intern | *Summer 2022; Summer 2021*

- Developed end-to-end pipeline for structured document processing using NLP (transformers)
- Analyzed text document pre- and post-processing patterns to maximize product efficacy

Next Caller, Inc. | *New York, NY, USA*
Software Engineer Intern (Data Science Track) | *May 2020 – Dec 2020*

- Implemented unsupervised and semi-supervised learning algorithms in Tensorflow
- Deployed machine learning models using AWS

Education

Graduate Center, City University of New York | *New York, NY, USA*
PhD in Computer Science | *Sept 2018 – Feb 2023*

- **Research Area:** Parameter identifiability and estimation in differential equations

University of Calgary | *Calgary, AB, Canada*
MS in Mathematics | *Sept 2016 – July 2018*

- **Research Area:** Species competition models with diffusion and harvesting

Projects

Machine learning projects

Kaggle competitions

- Cloud Segmentation Challenge: click here
- Alaska Image Steganalysis: click here
- Kaggle Ion Switching: click here