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Skills

Programming Languages: Python (PyTorch, pandas, scikit-learn, Tensorflow, JAX, numpy, sympy, Flask), Julia, Maple, C/C++

Scientific Computing: Machine learning, deep learning, numerical computations, computer algebra

Tools: Git, Bash and ZSH, SQL, AWS (CloudFormation, CodePipeline, Athena, Cloudwatch, DynamoDB)

Work Experience _____

Bill.com New York, NY, USA

MACHINE LEARNING INTERN June 2021 - August 2021 Built and tested natural language processing (NLP) models such as BERT for text classification

Google Summer of Code New York, NY, USA

INTERN June 2021 - August 2021

Migrated codebase for parameter identifiability in ODE models to SciML

The City College of New York, City University of New York New York, NY, USA ADJUNCT LECTURER Jan. 2020 - Present

• Courses Taught: Statistics for Computer Science

Next Caller, Inc. New York, NY, USA

SOFTWARE ENGINEER INTERN (DATA SCIENCE TRACK)

• Implement unsupervised and semi-supervised learning algorithms in Tensorflow

• Deploy machine learning models using AWS

Contribute implementations to internal data science tools

Projects _

Projects 2018 - PRESENT

PERSONAL AND RESEARCH PROJECTS AND OPEN SOURCE CONTRIBUTIONS

Research project: Web-based structural identifiability analyzer, click here

 Built a numpy-based machine learning library imitating PyTorch (URL: <u>click here</u>)
Open source contributions: Scikit-Image (Python), SciML's Symbolics.jl, SciML's StructuralIdentifiability.jl (Julia, one of maintainers)

2018 - PRESENT Machine learning

KAGGLE COMPETITIONS

• Cloud Segmentation Challenge: click here

• Alaska Image Steganalysis (submitted as a class final project) click here

Kaggle Ion Switching: click here

Education

Graduate Center, City University of New York

New York, NY, USA Sept. 2018 - PRESENT

May 2020 - Dec. 2020

• Research Interests: Algorithms and Software for Computer Algebra Systems, Machine Learning and Al.

• Publications: click here

PhD in Computer Science

• Awards: ISSAC 2021 Best Software Presentation Award

• Talks: click here

University of Calgary

MS IN MATHEMATICS

• Publications: click here

Calgary, AB, Canada Sept. 2016 - July 2018

Moscow Engineering and Physics Institute

BS IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

Moscow, Russia Sept. 2012 - July 2016