

ANNMARGARET TUTU

Machine Learning Software Engineer

More information and projects available at codeamt.github.io, [LinkedIn](#) and [GitHub](#).

Selected Projects

WindFarmSpotter an end-to-end deep learning pipeline for classifying wind farm capacity; inference APIs developed for SWAP/IoT hardware.

BitcoinPySpark a multivariate time series forecast/linear regression model for bitcoin market price; Spark runtime implementation in Colab. Achieved RMSE of 37.16 and r2 score of 98.6.

Federated Deep Learning Demo a privacy-centric transfer learning demo Secure Multi-Party Computation (SMPC) achieves 98% accuracy on MNIST.

Malaria Blood Sample Classifier a binary classification algorithm for Malaria blood smear samples; developed using PyTorch/fast.ai.

Relevant Experience

Software/Research Engineer - Machine Learning

Freelance || January 2015 - Present

- Implemented 10+ learning pipelines using PyTorch/PySpark/TensorFlow
- Skilled at automating data engineering; visualizing/augmenting techniques
- Proficient in applying machine learning methods/tuning deep networks
- Experience interfacing with a variety of data stores; writing SQL queries
- Pivoting to AI with 3+ years of DevOps/software engineering experience

Co-founder, Lead Developer/Growth Hacker

Blaqbox, LLC || March 2015 - December 2017

- Optimized marketing channels for search for creative brands and SMBs
- Developed 15+ web landing pages/ecommerce sites with digital assets
- Managed social listening tools for analytical insights on KPIs/A/B Testing

Data Visualization Engineer (Remote)

Pagos, Inc. || September 2014 - March 2015

- Reported to the CEO on a remote, startup team of engineers/marketers
- Develop 10+ Tableau-like dashboards/video tutorials to support sales
- Published a [whitepaper](#) on enterprise Business Intelligence (Bi) SQL stacks

Education

Bachelor of Science, Film & Television

Boston University || May 2013

Android Development Nanodegree

Grow With Google Scholarships, Udacity || March 2019

Advanced Data Science Specialization

IBM, Coursera || February 2019

Deep Learning Specialization

deeplearning.ai, Coursera || March 2018

Contact Information

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Frameworks/Tools

Libs: PyTorch, TensorFlow, PySpark

Runtimes: Jupyter, Spark, SWAP

APIs: Flask, Swift 5 (Server-Side)

Mobile: PyTorch Mobile, TF Lite

Dev: Git, Linux, SSH, Docker

Skills/Proficiencies

Computer Vision / NLP

Reinforcement Learning

Regression/Forecasting

Hardware Acceleration

Data Processing

Automating/Documentation

Research Communities

Working Group Researcher

MD4SG || 2019 - Present

International Fellow

fast.ai Live || 2019

Diversity & Inclusion Fellow

ICML || 2019

Peer Reviewer

NeurIPS Conference || 2018, 2019

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