

Michael Telahun

Data Scientist

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English

BACKGROUND

ABOUT

Michael has a Master's of Computer Science and Engineering from University of Louisville. His professional experience as a Data Scientist has been spent Modeling in Finance, Healthcare, Imaging, and Quantum Information Systems. He has built data products and data pipelines from several complex systems.

WORK EXPERIENCE

Data Scientist, Luma Financial technologies

Jul, 2022 - Present

Luma provides a single source platform for trading, managing and creating Structured Products. One of the core components of the business standardizes and homoginizes these products from their vast differences across companies into single data model.

- Developed data pipelines for key product metrics Terraform, DBT, Snowflake, AWS, Python.
 - As a data engineer I sorted through 300+ product data features across multiple source systems (Mongo, SQL Server, PostgreSQL) and designed the data products. One of these data products is the calculations platform driven by over 60 features. This required centralizing industry knowledge and advising product managers
- Developing portfolio based structured product recommender.
 - Match high return products to client portfolios by building or suggesting products when purchasing

- Developed data pipelines for user engagement Terraform, DBT, Snowflake, Pendo.
 - I took client transaction, Pendo user actions, and internal data to develop a user journey or story
- Developed Streamlit applications across managed structured products company wide
 - View of similarity across structured products
 - View of relationships between stocks, indices, and underlying assets
 - Full dashboard of trading volume and opportunity
 - Client portfolio and Issuing bank reporting

PROJECTS EXPERIENCE

Miss Direction, Smoogle

Aug, 2016 - Aug, 2016 1 day

A mapping engine that misguides you

- Won award at AlHacks 2016
- o Built by all women team of newbie programmers
- Using modern technologies such as GoogleMaps, Chrome Extension and Javascript

SKILLS

Web Development

HTML CSS Javascript

Compression

Mpeg MP4 GIF

EDUCATION

Computer Science and Engineering, Master of Engineering, University of Louisville

Jun, 2011 - Jan, 2014

AWARDS

Digital Compression Pioneer Award, Techcrunch

Awarded on: Nov 01, 2014

There is no spoon.

PUBLICATIONS

Data Rotation and its Influence on Quantum Encoding, Springer Nature

Published on: Jan 23, 2023

Effective quantum data pre-processing via embedded rotations.

${\bf Aggregate\ Density\ Based\ Concept\ Drift\ Identification\ for\ Dynamic\ Sensor\ Data\ Models\ ,\ Springer:\ Neural\ Neur$

Computing and Applications

Published on: Apr 01, 2021

Novel method for detecting when a model needs to be retrained prior to anyone knowing.

Exploring Information for Quantum Machine Learning Model, University of Louisville

Published on: Dec 15, 2020

Master Thesis - investigates several translations from classical to quantum optimization problems.

TensorFlow Quantum: Impacts of Quantum State Preparation on Quantum Machine Learning Performance, IEEE Access

Published on: Nov 16, 2020

Analysis of cutting edge quantum feature maps using my own quantum-classical learning layer.

 $Heuristic \, Analysis \, For \, In-Plane \, Non-Contact \, Calibration \, of \, Rulers \, Using \, Mask \, R-CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \, Information \, Analysis \, CNN \, , \, MDPI: \,$

Published on: May 09, 2020

Measures objects in an image if the image contains a ruler, just snap a picture.

