

Michael Keller

6583 Waterfront Xing Unit 103, Lake Worth, FL 33467

(561)-727-9994

[michaelkeller21.github.io](https://github.com/michaelkeller21)

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Summary

Mathematics tutor and data scientist with 5+ years of experience tutoring students from elementary through college level in math, Spanish, and computer science. EMA-approved provider for Step Up for Students. Skilled in adapting instruction to different learning styles and building students' confidence and problem-solving skills. Excited to return to my roots after 5 years in industry. Seeking to contribute to tutoring centers and educational programs in Palm Beach County and statewide.

Tutoring & Education Experience

- June 2019-April 2020 Boca Raton, FL
 - Mathematics Tutor at Florida Atlantic University's Math Learning Center (MLC)
 - Tutored undergraduate students in Algebra, Calculus, Statistics, and core math courses.
 - Provided individualized and small-group support, focusing on conceptual understanding and test preparation.
- January 2017-May 2018 Boca Raton, FL
 - CLASS Tutor at Florida Atlantic University
 - Tutored Spanish, C Programming, American History, and World Politics for college students
 - Achieved level 1 and 2 CRLA certifications
- August-December 2016 Boca Raton, FL
 - Owl-to-Owl Volunteer Tutor at Florida Atlantic University
 - Provided peer tutoring in Spanish, C Programming, and Humanities courses.
 - Supported fellow undergraduates through structured study sessions.

Professional Experience

- Aug 2022-Present Remote- Dallas, TX
 - Data Scientist and Machine Learning Engineer II at LTK
 - Created Streamlit app for labeling with active learning, in an effort to identify which categories most need data for classification models
 - Used ALT (Active Learning Tool) in combination with Cleanlab library to deliver an 8% F1 score increase for category model
 - Worked to expand binary collage detection model to classify other types of posts, achieving a 95% F-1 Score across 7 post categories
 - Utilized an OpenAI CLIP model to build a training dataset
 - Utilized a YOLO object detection model to help distinguish between classes of images
 - Also utilized a keypoint detection model to identify people

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- Developed an internal library to aid in making API calls to our internal recommendations models
 - Worked to cluster consumers based on interaction data into groups
 - Assisted in building a computer vision model to automatically tag products posted by creators
 - Built a model to recommend similar posts to a user based on a given post
- Jan 2021-August 2022 Remote- Dallas, TX
 - Data Scientist and Machine Learning Engineer I at LTK
 - Continued work on product classification model, combining product images with text data to make a classification. Achieved 84% F1 score across 52 product categories
 - Time series analysis
 - Helped to create, deploy, and productionalize end-to-end binary collage detection model for posts, achieving 91% accuracy
- September-December 2020 Remote- Dallas, TX
 - Data Science Intern at LTK
 - Helped to demo an image classification model that allowed for the creation of hashtags about creators
- June-August 2018 Palm Springs, FL
 - Automation Analyst Intern at Oxygen Development, LLC
 - Helped to program Pepper, a life-size artificial intelligence robot so that she interacts better with humans
 - Attempted to find other AI systems to assist in automating daily processes and making them easier

Skills

Languages: Python, SQL

Libraries: Pandas, NumPy, scikit-learn, Pytorch, Keras, Tensorflow, PySpark, Cleanlab, Streamlit, Locust

Frameworks: AWS EC2, AWS Sagemaker, AWS S3, Databricks, Docker, Git

Education

- Florida Atlantic University- Boca Raton, FL- Master of Science in Artificial Intelligence, December 2020
- Florida Atlantic University- Boca Raton, FL-Bachelor of Science in Mathematics, December 2018
 - Minor in Computer Science, December 2018
- Florida Atlantic University High School-Boca Raton, FL, May 2017
 - Accelerated/advanced dual enrollment program where students are fully enrolled in all college classes starting in their sophomore year of high school and receive dual credit for their final 3 years.