

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

Data scientist and machine learning engineer with 5+ years experience building end-to-end machine learning pipelines including data querying/preprocessing, iterative model training, and deployment to API endpoints. Proficiency in computer vision classification models, text classification models, automated computer vision dataset building, unsupervised clustering models, similarity models, tabular datasets, and building Python libraries. Passionate about deep learning and neural networks. Enjoy accepting and rising to new challenges and adapting to new situations.

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

Professional Experience

- Aug 2022-Present Remote- Dallas, TX
 - o 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
 - 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
 - o 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

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- 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

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.