

INTRODUCING MACHINE LEARNING IN PYTHON

WITH SCIKIT-LEARN



with Corey Wade, Director & Founder of Berkeley Coding Academy



LEAD INSTRUCTOR

Corey Wade

- Director & Founder of Berkeley Coding Academy
- Author of 2 Python Machine Learning Books
 - Hands-on Gradient Boosting with XGBoost and scikit-learn
 - The Python Workshop includes Machine Learning & Deep Learning
- Math/Programming Teacher at Berkeley Independent Study



SUPPORT STAFF

Ishika Prashar

- Berkeley Coding Academy lead instructor
- UC Berkeley Graduate Data Science instructor
- Degrees in Data Science and Cognitive Science

OUTLINE

- Introduction 10 min slides + 5 min code set-up
- Module 1 Preparing Data for ML 20 min code
- Module 2 Building First ML Model 10 min slides + 25 min code
- Module 3 Find Best Model via Cross-validation 15 min code + 10 min slides + 10 lab/contest + 10 min break
- Module 4 Optimize Models with Hyperparameters 10 min slides + 20 min code + 15-20 min lab/contest
- Module 5 Finalize models: feature_importances_, Pipelines 20-25 min
- Conclusion 10 min slides



SETUP

- Prerequisites Python
- Requirements Jupyter Notebook (Open or Download via Anaconda)
- Code & Links https://github.com/coreyjwade/ODSC_West_2023
 - Download: starter_code_sklearn_intro

