



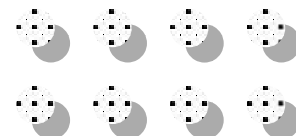
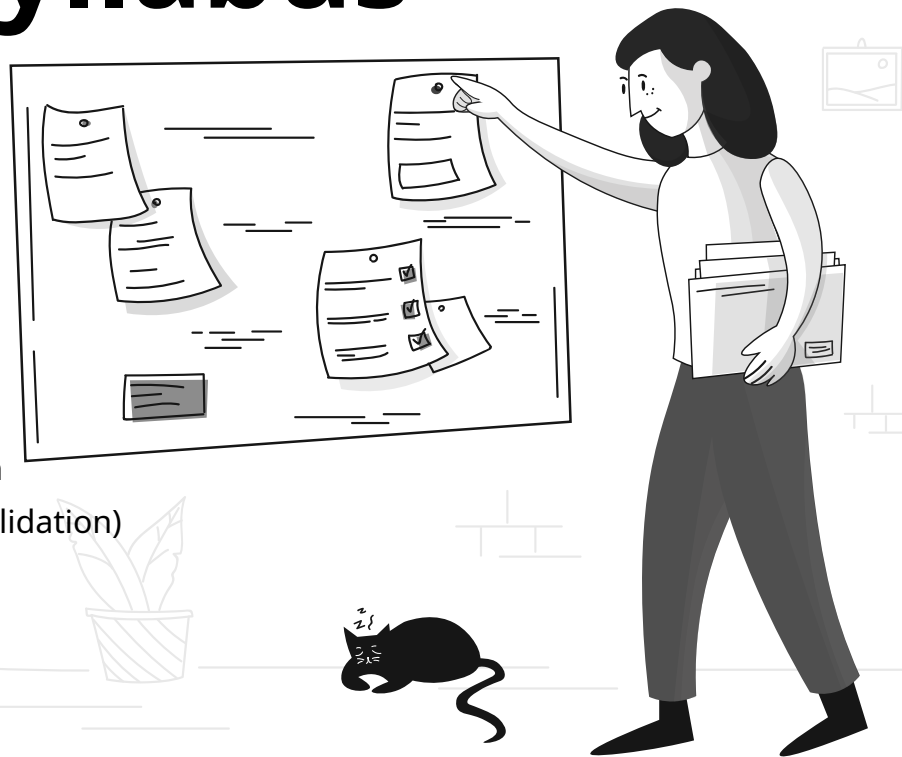
Machine Learning Intro

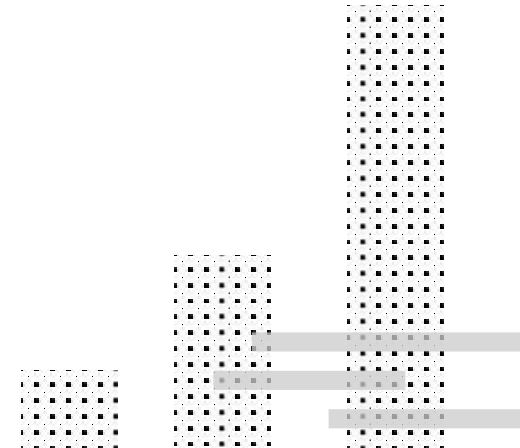
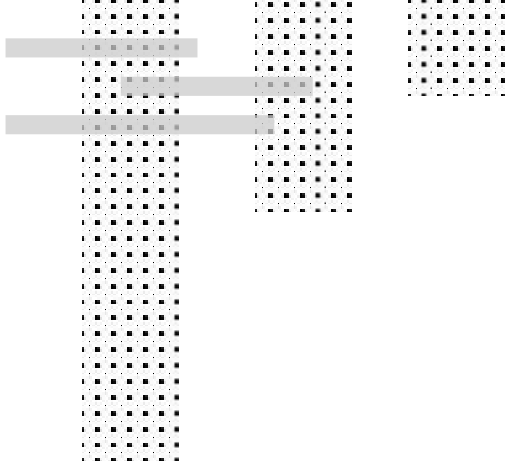
Eng | Mahmoud Tariq

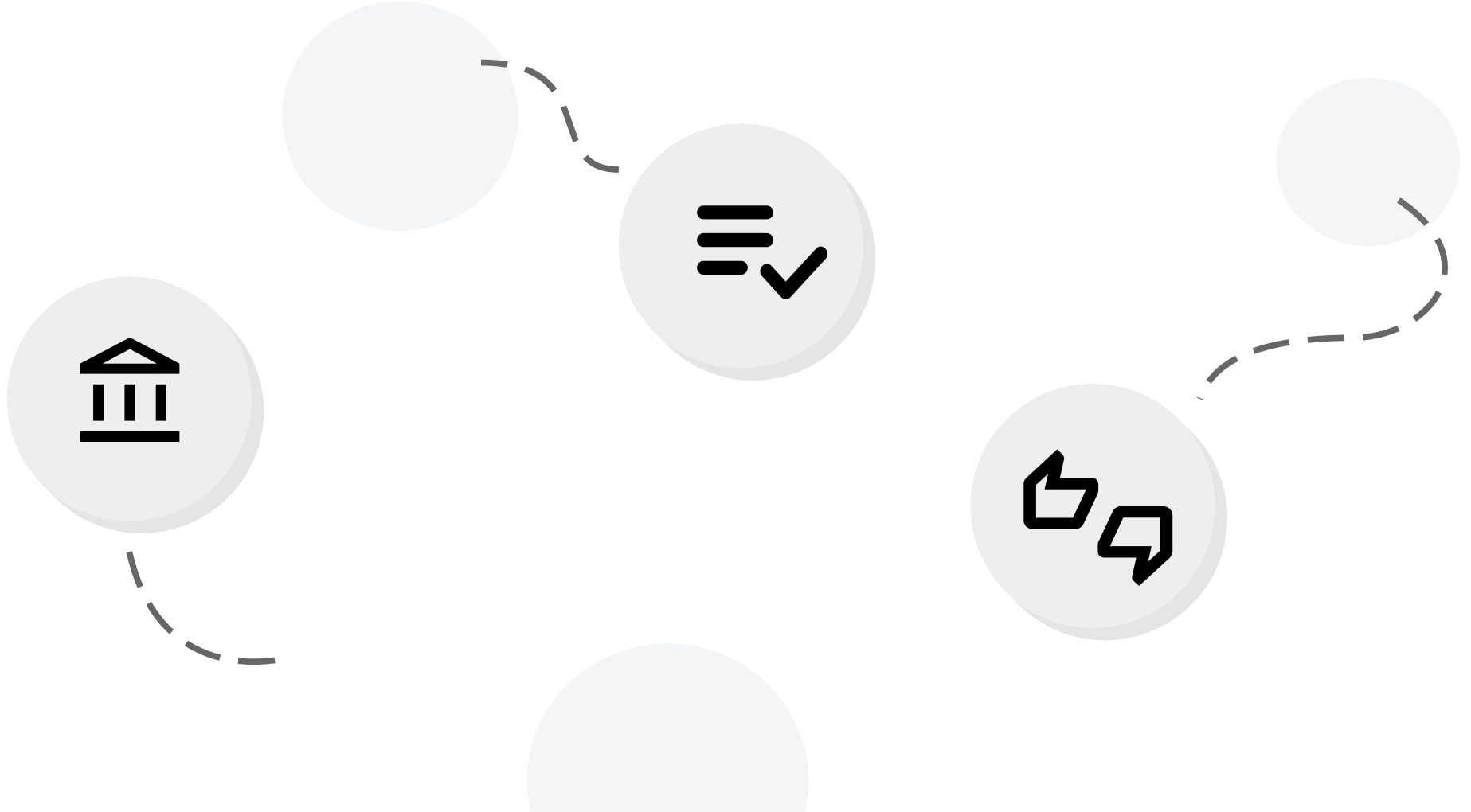
08/19/2025

Course Syllabus

- **Intro to Machine Learning & Environment Setup**
- task: Setup the environment
- Foundations: Key Linear Algebra & Stats + Hands-on NumPy
- Data Handling & Visualization + Hands-on Pandas
- The ML Workflow + Linear Regression with Scikit-learn
- Classification Models (Logistic Regression, KNN) with Scikit-learn
- Model Evaluation & Improvement (Metrics, Overfitting, Cross-Validation)
- Mini-Project: Putting it all together with Scikit-learn
- Introduction to Neural Networks
- Building a Neural Network with a Framework
- Course Project Description + Where to Go From Here









01

03



02



04



