

Introduction to Machine Learning



ChengCheng Tan WTM Ambassador



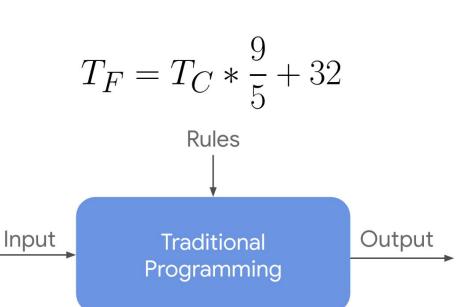
- 1. What is Machine Learning?
- 2. Data preparation
- 3. Model Training
- 4. Model Evaluation
- 5. Next steps... and more!



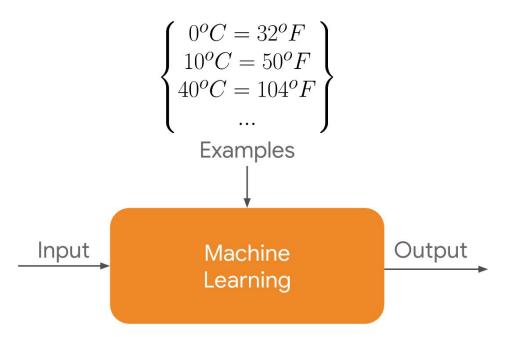
What is Machine Learning (ML)?



Traditional Programming



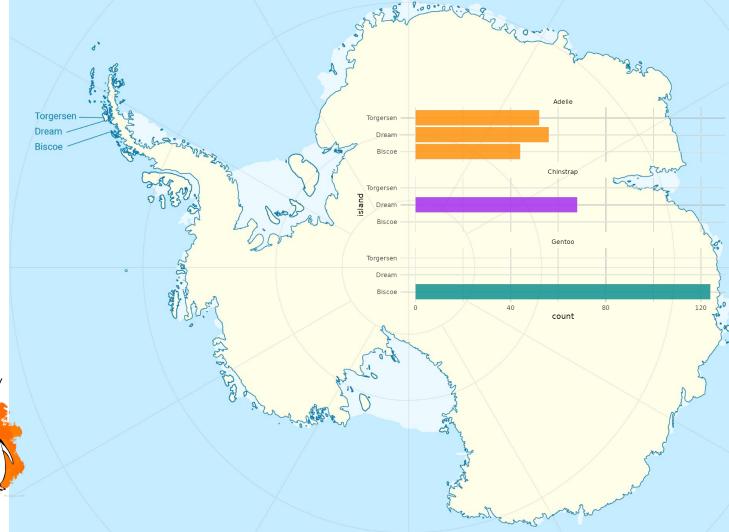
Machine Learning



Data



Palmer Penguins

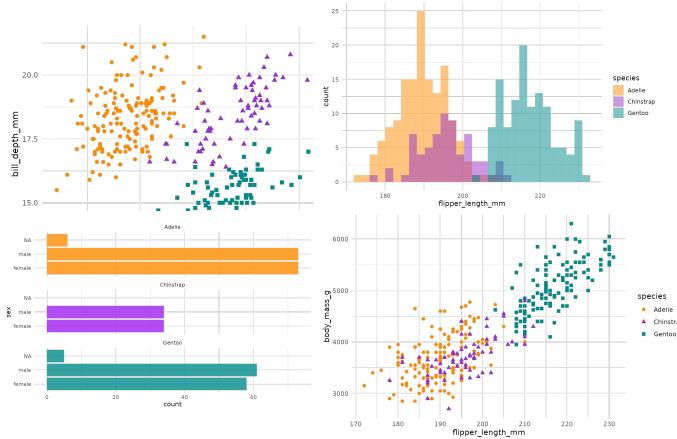




Data Exploration

- bill_depth
- bill_length
- flipper_length
- body_mass
- sex
- island

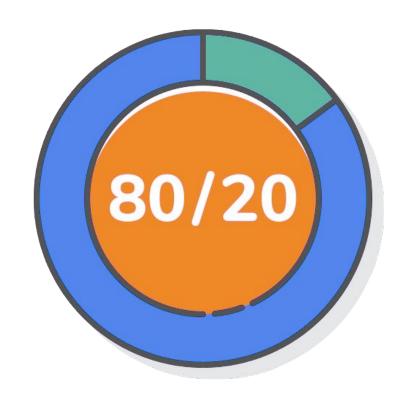




Data Preparation

- Input features: characteristics
- Output labels: target classes
- Training & testing split





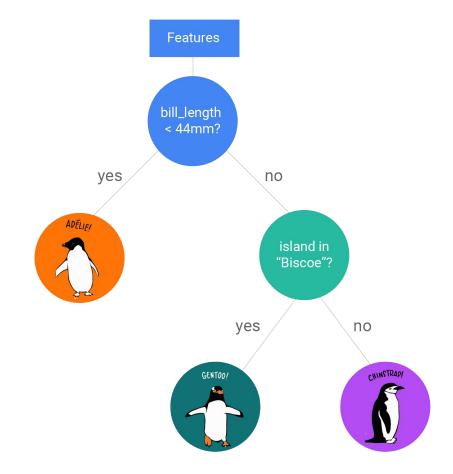


Algorithm: Decision Tree

GENTOO!

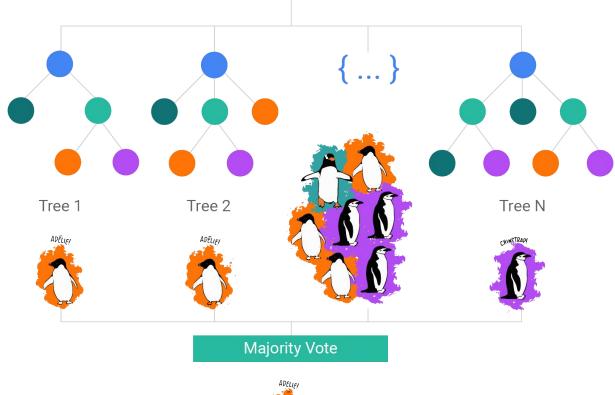
CHINSTRAPI

ADELIE





Algorithm: Decision Forest



Features









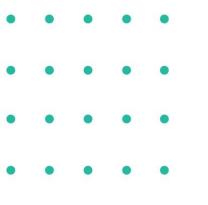
https://bit.ly/WTM23_introML

Google Colab Notebook



1. Setting up the environment



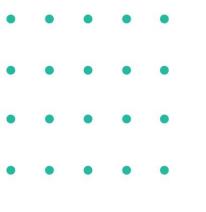


2. Get the Data



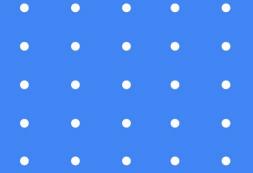






4. Evaluate the Model





5. More FREE resources!!





The best way of learning about anything is by doing...

You don't learn to walk by following rules. You learn by doing, and by falling over.

Richard Branson



