



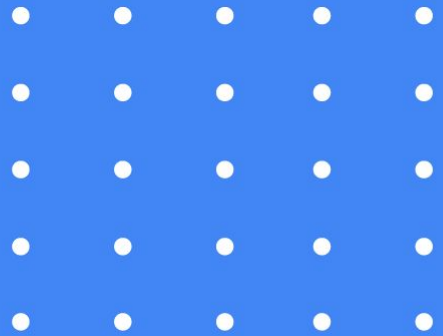
Introduction to Machine Learning



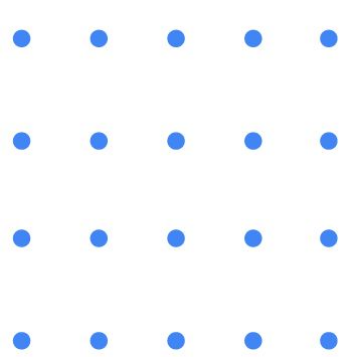
ChengCheng Tan
WTM Ambassador



Philippa Burgess
WTM Ambassador



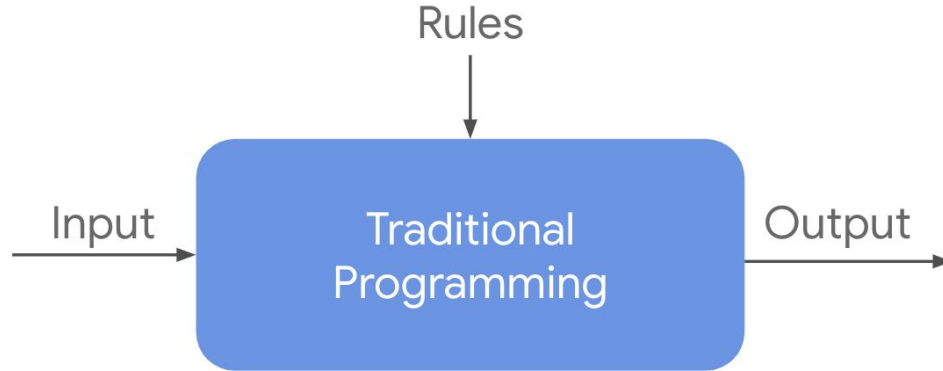
1. What is Machine Learning?
2. Data preparation
3. Model Training
4. Model Evaluation
5. Next steps... and more!



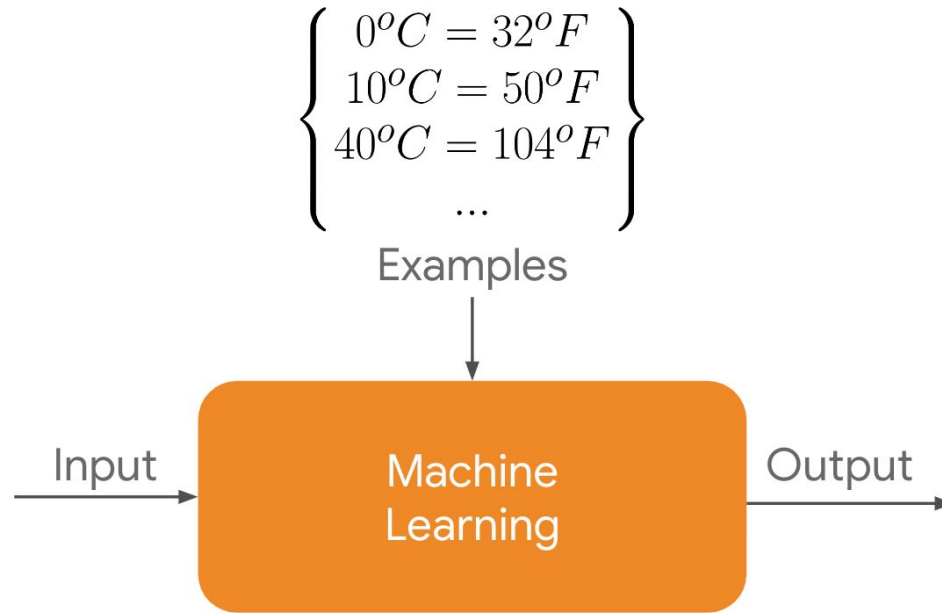
What is Machine Learning (ML)?

Traditional Programming

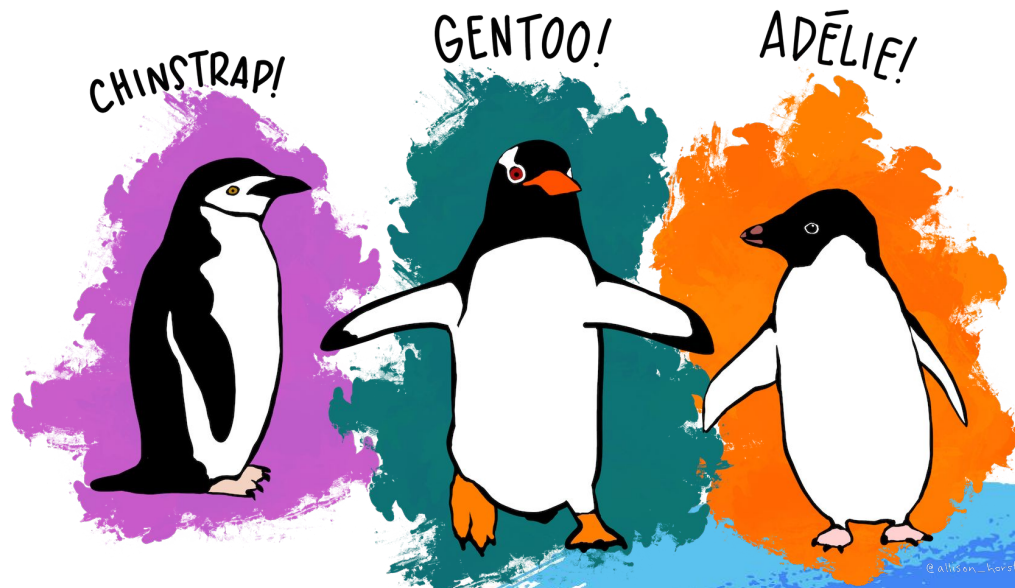
$$T_F = T_C * \frac{9}{5} + 32$$



Machine Learning

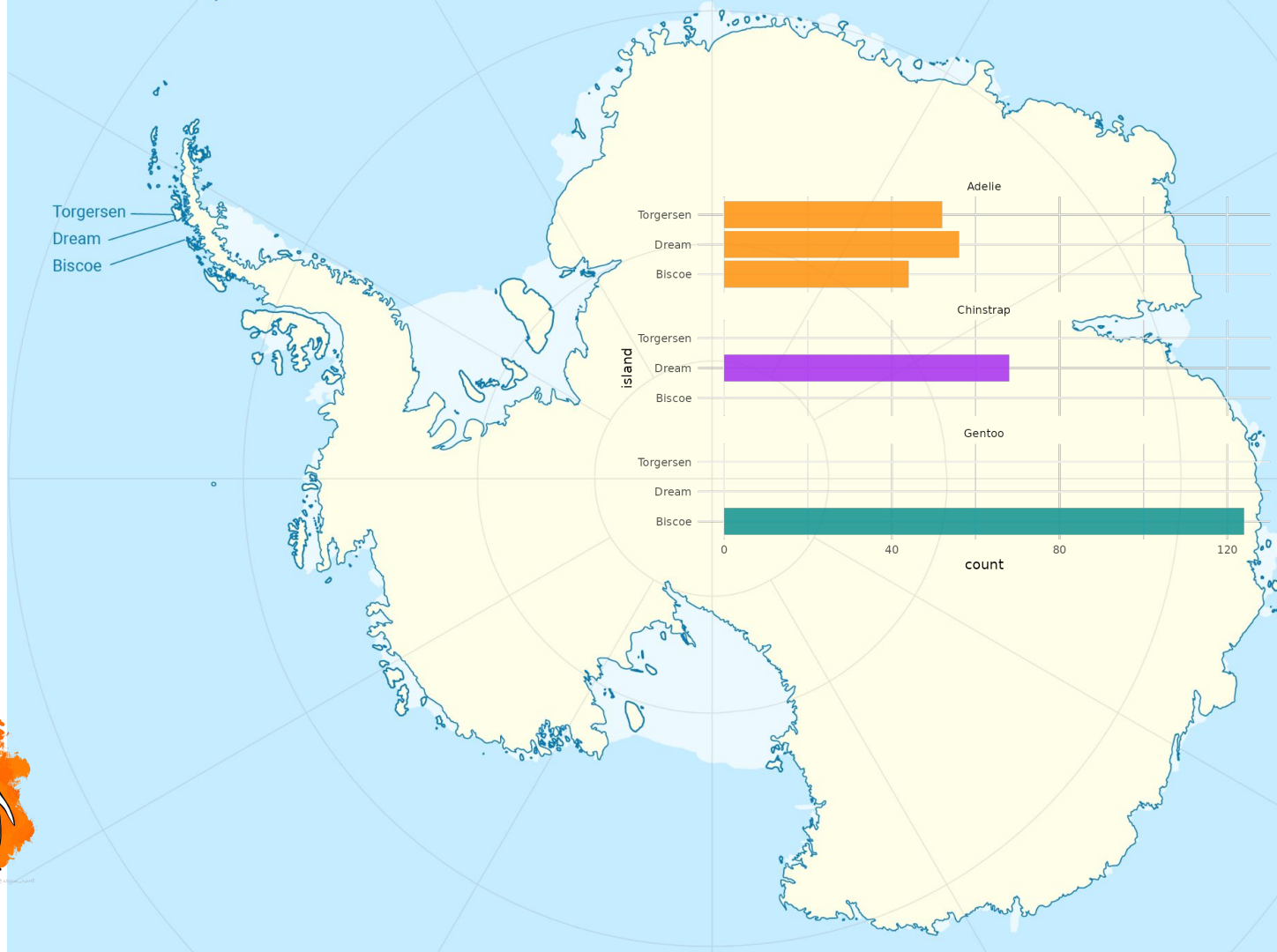
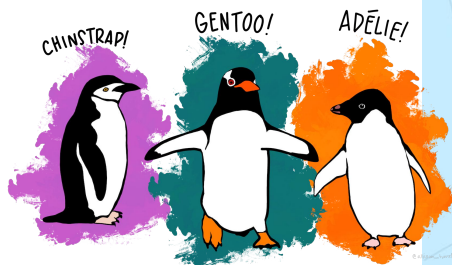


Data



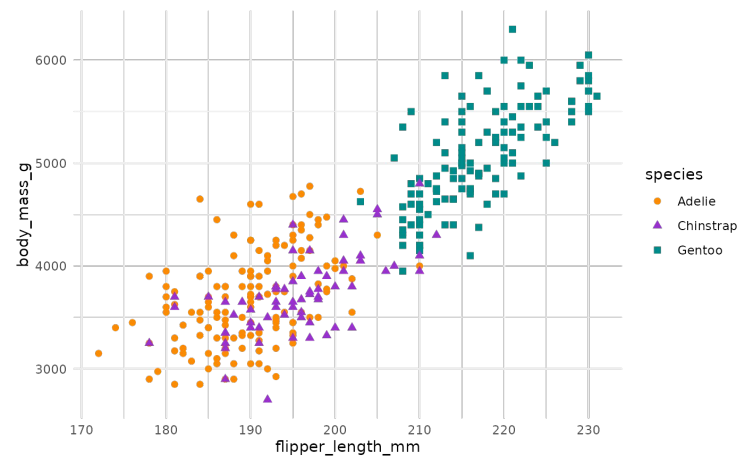
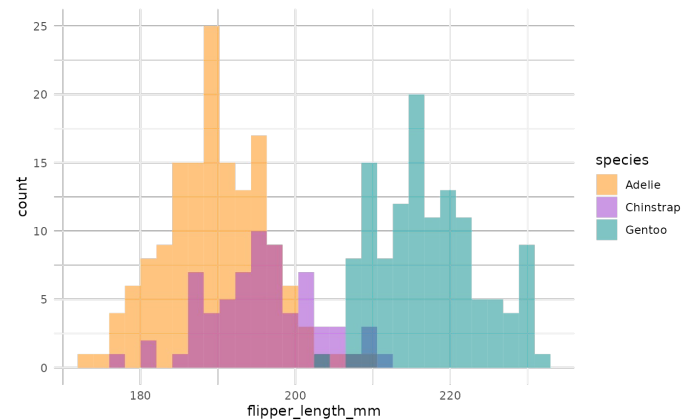
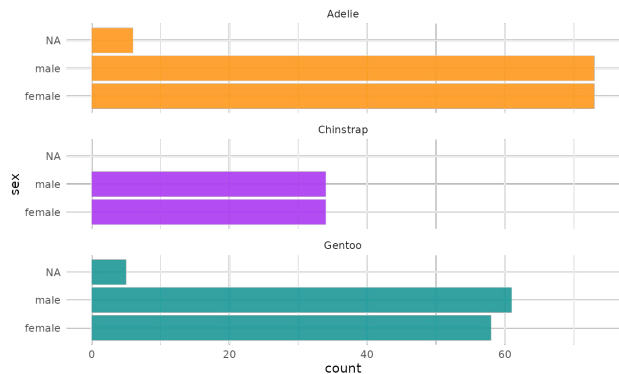
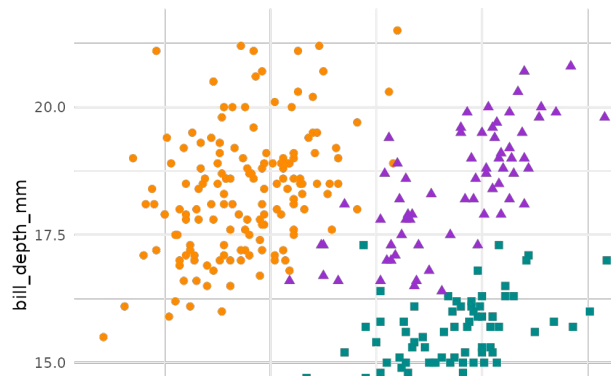
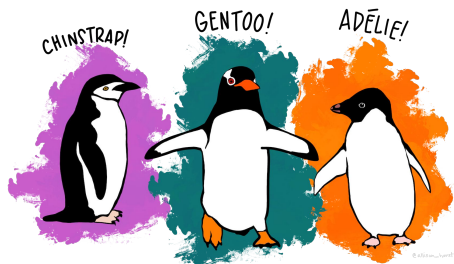
Palmer Penguins

Torgersen
Dream
Biscoe



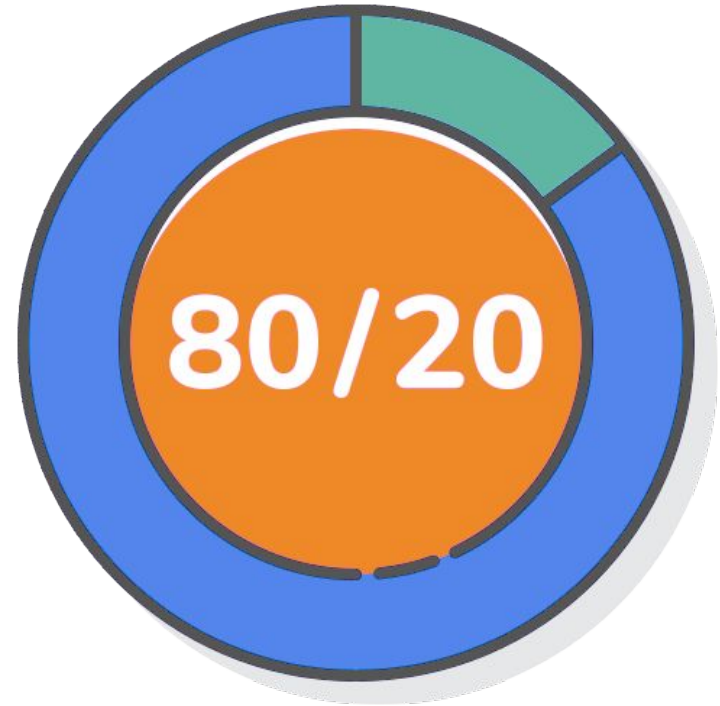
Data Exploration

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

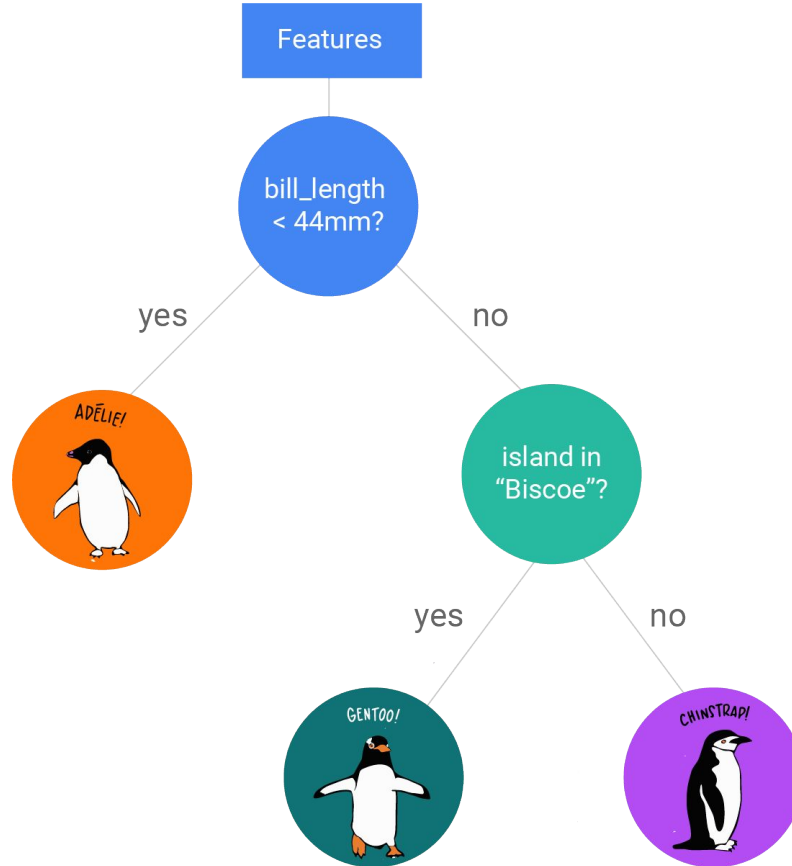


Data Preparation

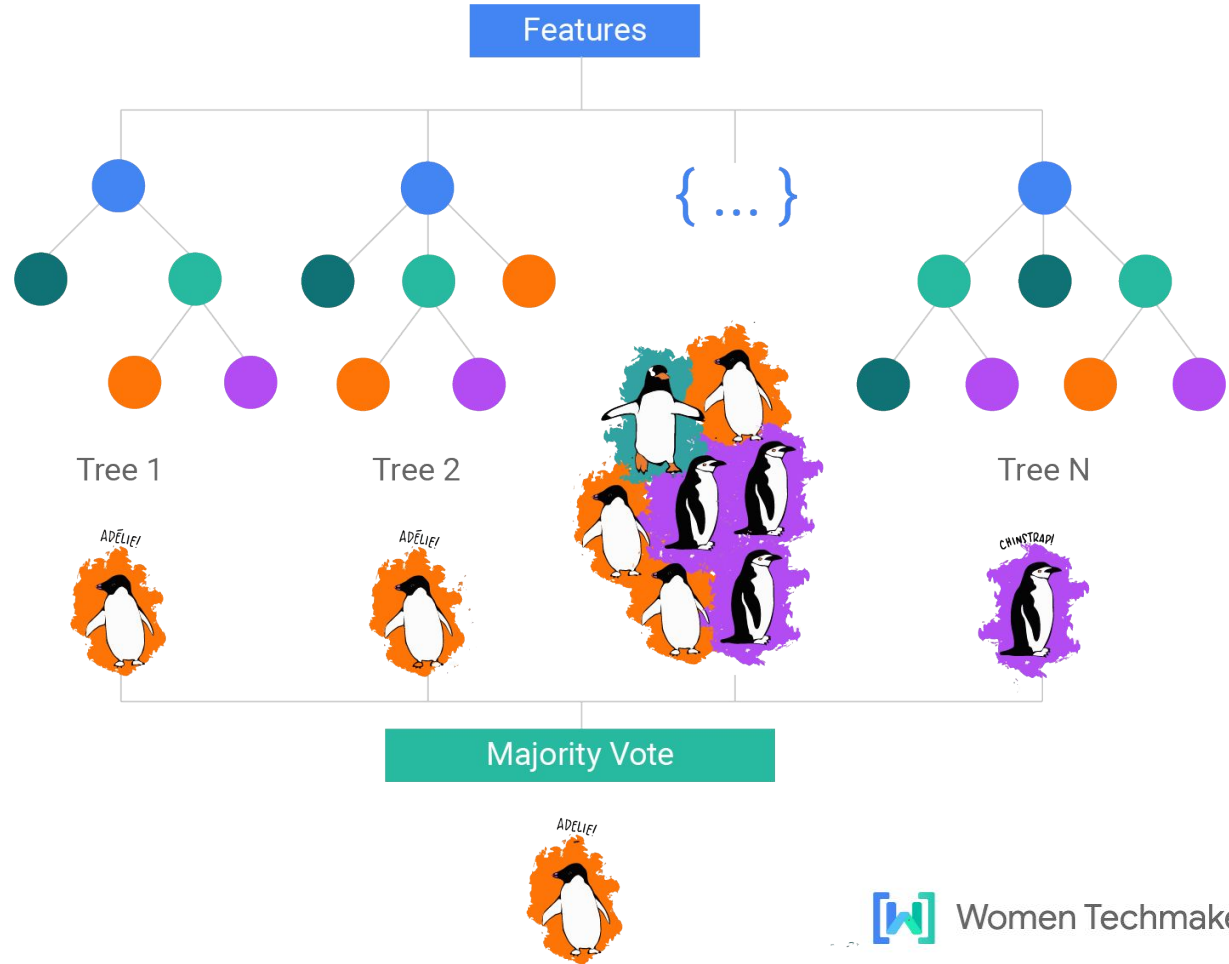
- Input features: characteristics
- Output labels: target classes
- Training & testing split



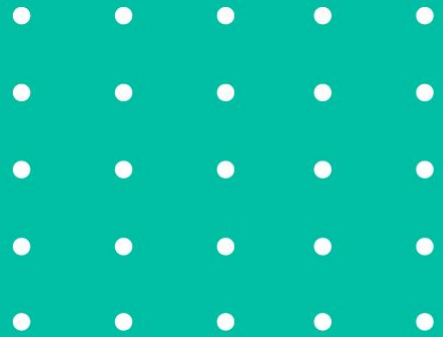
Algorithm: Decision Tree



Algorithm: Decision Forest

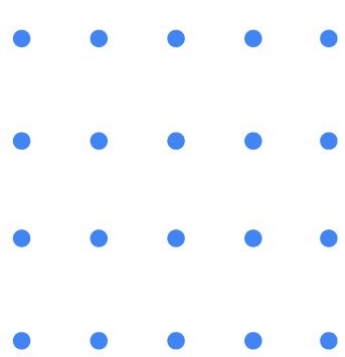


Women Techmakers



https://bit.ly/WTM23_introML

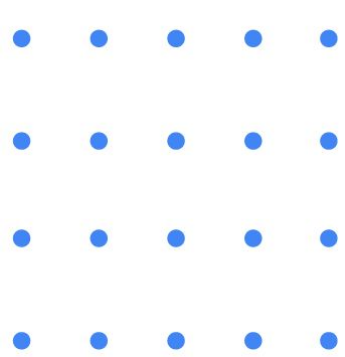
Google Colab Notebook



1. Setting up the environment



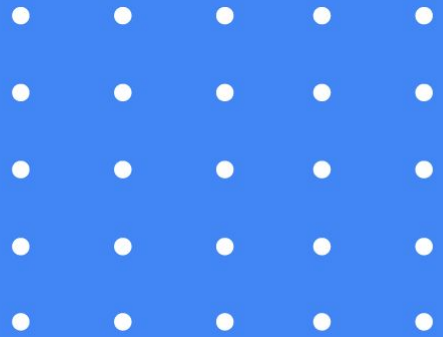
2. Get the Data



3. Train the Model



4. Evaluate the Model



5. More FREE resources!!

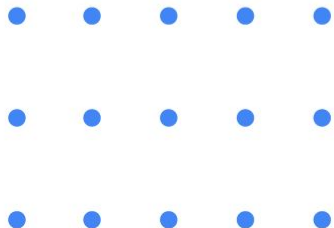


The best way of learning about anything is by doing...

You don't learn to walk by following rules.

You learn by doing, and by falling over.

— Richard Branson





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