# CHAPTER 5: Classification Models

* **Overview**
* **Introduction**
* **Binary Classification**
* **Logistic Regression**
* **Binary Cross-Entropy**
* **Binary Classification Architecture**
* **Exercise 5.01: Building a Logistic Regression Model**
* **Metrics for Classifiers**
* **Accuracy and Null Accuracy**
* **Precision, Recall, and the F1 score**
* **Confusion Matrices**
* **Exercise 5.02: Classification Evaluation Metrics**
* **Multi-Class Classification**
* **Categorical Cross-Entropy**
* **Multi-Class Classification Architecture**
* **Exercise 5.03: Building a Multi-Class Model**
* **Activity 5.01: Building a Multi-Class with TensorFlow**
* **Activity 5.02: Building a Handwritten Digit Classification model with TensorFlow**
* **Multi-Label Classification**
* **SUMMARY**