# Mathematics for Machine Learning

Samuel Ireson
samuel-a.ireson@db.com

Klejdi Sevdari
klejdi-a.sevdari@db.com

Finlay Pillar
finlay-pillar@db.com

Wing Lam Wong
wing-lam-a-wong@db.com

October 20, 2024

# 1. INTRODUCTION

*We discuss motivations for studying the mathematics behind machine learning, give an outline of the content of the course, and mention the references which were used in putting it together.*

## 1.1 EXERCISES

### 1.1.1 EXERCISES (BASIC)

PROBLEM 1.1. This is the problem statement.

SOLUTION 1.1. This is the solution.

PROBLEM 1.2. This is the second problem statement.

SOLUTION 1.2. This is a new change!

NOTATION. This is an environment.

Riemann surfaces are great[1].