# Introduction

## 1:1 Problem statement and research motivation

## 1:2 The data set

We used the Wine Dataset from Kaggle, which contains 1,599 wine samples with 12 features. Our research focuses on alcohol content, shown as a percentage, and quality ratings ranging from 1 to 10.The dataset includes factors such as acidity levels, residual sugar, and pH values, helping us understand their influence on overall quality. By analyzing this dataset, we aim to explore how alcohol content affects wine quality and provide insights for winemakers and wine enthusiasts.

## 1:3 Research question

## 1:4 Null hypothesis and alternative hypothesis (H0/H1)