

Problem

A mining company has approached our company to assist them with some environmental monitoring. Governmental regulations in place require them to determine if their mining has had an impact on a particular plant species known as *Imaginaria Flora*.

The company has provided us with a csv of data which contains information on the health of particular plants surrounding the mine site. Each row of data contains bimonthly measurements of chlorophyll and whether that plant is located near (<50m) or far (>50m) from the mining activity. The greater the chlorophyll measurement, the healthier the plant is deemed to be. It is known that mining commenced in June 2017.

Task

Write a brief report (maximum 2 pages) that explores whether the mining activity has had an impact on the health of the plants since it has commenced.

In the report, make sure to include:

- Any assumptions you have made;
- The model / test you have decided to use; and
- Clearly explain your results.

There are many ways to approach this problem and as such, we are interested in your thought process and your ability to communicate your results.