

# Machine Learning Tryout

Duration: 3 hours

Teams of 2

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In this challenge, you will create an application that will predict the amount of forest area that will burn given specific weather and date attributes.

Dataset: [Here](#)

Your program should take parameters as input and should be accompanied by a README that explains exactly how to run it.

Information about the dataset:

1. X - x-axis spatial coordinate within the Montesinho park map: 1 to 9
2. Y - y-axis spatial coordinate within the Montesinho park map: 2 to 9
3. month - month of the year: 'jan' to 'dec'
4. day - day of the week: 'mon' to 'sun'
5. FFMC - FFMC index from the FWI system: 18.7 to 96.20
6. DMC - DMC index from the FWI system: 1.1 to 291.3
7. DC - DC index from the FWI system: 7.9 to 860.6
8. ISI - ISI index from the FWI system: 0.0 to 56.10
9. temp - temperature in Celsius degrees: 2.2 to 33.30
10. RH - relative humidity in %: 15.0 to 100
11. wind - wind speed in km/h: 0.40 to 9.40
12. rain - outside rain in mm/m2 : 0.0 to 6.4
13. area - the burned area of the forest (in ha): 0.00 to 1090.84  
(this output variable is very skewed)

You can use any library available to you.

**Grading**

Your grading will depend on your models accuracy, precision and recall.

**Submission**

Compress all of your code in .zip or .tar.gz format and email the resulting archive to [competitions.scs@ecaconcordia.ca](mailto:competitions.scs@ecaconcordia.ca) with the subject line "MACHINE LEARNING - <insert team name here>"