

Machine Learning 2 Project Proposal

Prediction of future bike shares in London

Jabir Kangarli

428088

Professor: Robert Wojciechowski

University of Warsaw

The dataset description:

The purpose of this project is to predict the future bike shares in London. The dataset description is as below;

- 10 variables
- 17415 observations

The variable names are as shown;

Timestamp – timestamp field for grouping the data

cnt – the count of a new bike shares

t1 - real temperature in C

t2 - temperature in C "feels like"

hum - humidity in percentage

windspeed - wind speed in km/h

weathercode - category of the weather

isholiday - boolean field - 1 holiday / 0 non holiday

isweekend - boolean field - 1 if the day is weekend

season - category field meteorological seasons: 0-spring; 1-summer; 2-fall; 3-winter.

Usage of Machine learning algorithms

- Linear regression
- Decision tree
- Random Forest
- Neural Network, Multi Layer Perception

Packages to be used:

- Numpy
- Pandas
- Matplotlib
- Seaborn
- Sklearn
- Tensorflow, Keras