Module 11: Model Selection and Boosting

Case Study

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Case Study

Domain – Chemical Industry

focus – Classify chemical

<u>Business challenge/requirement</u>
FuPont is a leading chemical company across the globe. The Company is on a CSR (Corporate Social Responsibility) mission. It wants to identify biodegradable products based on a study of the relationships between chemical structure and biodegradation of molecules.

You as ML expert have to create a ML model to classify the chemical structure as 'Ready BioDegradable' – RB vs 'Not Ready Biodegradable' – NRB

<u>Key issues</u>
Data has lots of attributes and classification could be tricky

<u>Considerations</u>
NONE

<u>Data volume</u>
- Approx 1055   records – file bio-degradabale-data.csv
Fields in Data

- Details in Module-9-Ada-Boost.ipynb notebook

<u>Additional information</u>
- NA

<u>Business benefits</u>
Research can lead FuPont to create truly unique Biodegradable packaging material. This could lead to massive profits in future