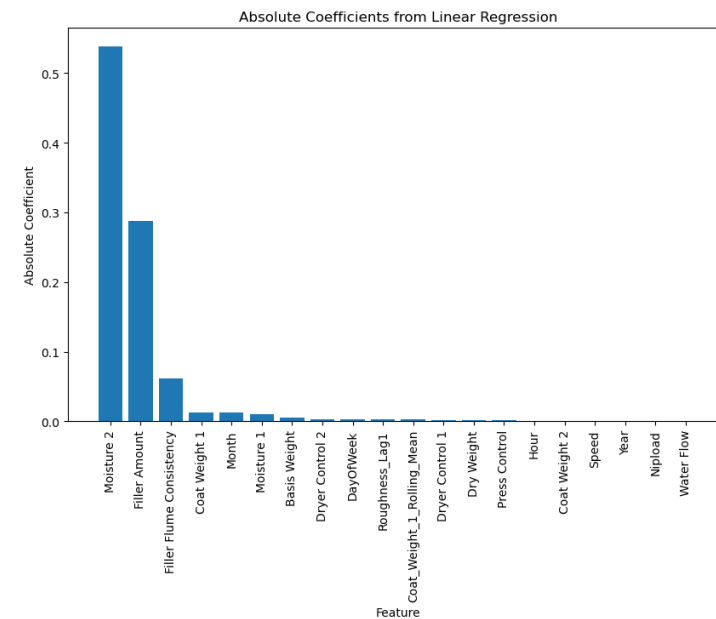
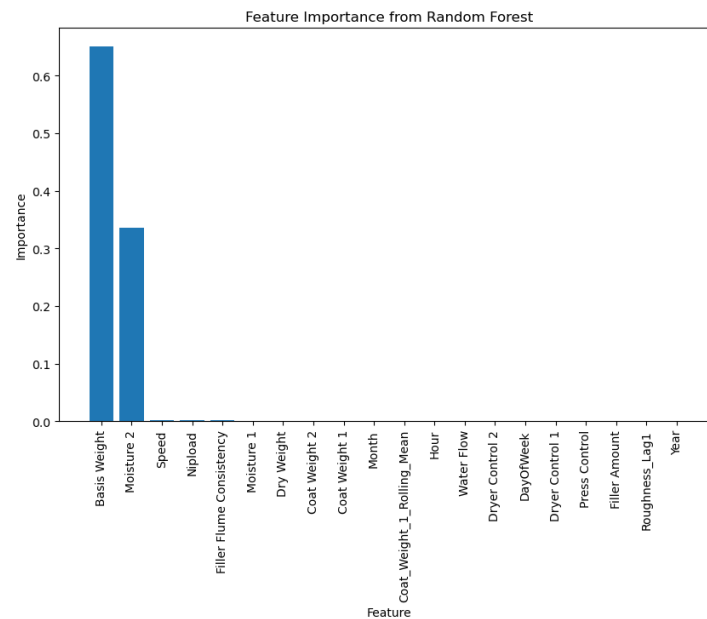
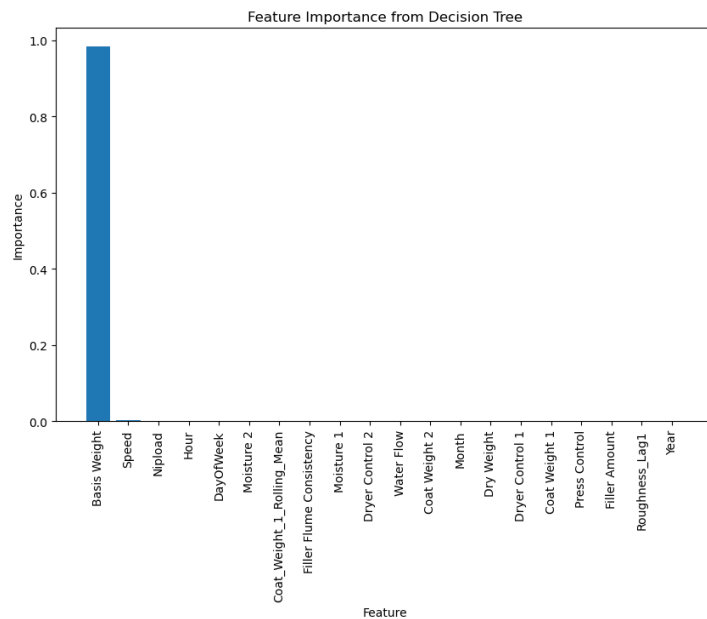


# Predicting paper quality

Presented By:  
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Visual representation of feature importances with respect to roughness of paper

## Recommendations

- ▶ From the data it can be seen that the Sensors Basis weight and Moisture 2 have the most important effect on the roughness of the paper. It is expedient to monitor the important sensors. Taking a look at the data, with some of it being missen , it can be said that the sensor failed to capture data at that given point in time . Therefore the sensors should be re-caliberated .This can help to reduce variability and also maintain roughness within the desired specification .
- ▶ For the low important sensors with little or no signifcant impact, they should also be checked from time to time.
- ▶ There should also be scheduled maintenance, this will help to reduce any disruption in the production process

# How to improve the model

- ▶ Try different algorithms to see if they would yield better results .
- ▶ For the regression tasks like predicting paper roughness you can experiment with linear regression, decision tree, random forest, svm and neural network.
- ▶ Ensure the data processing steps are appropriate.

