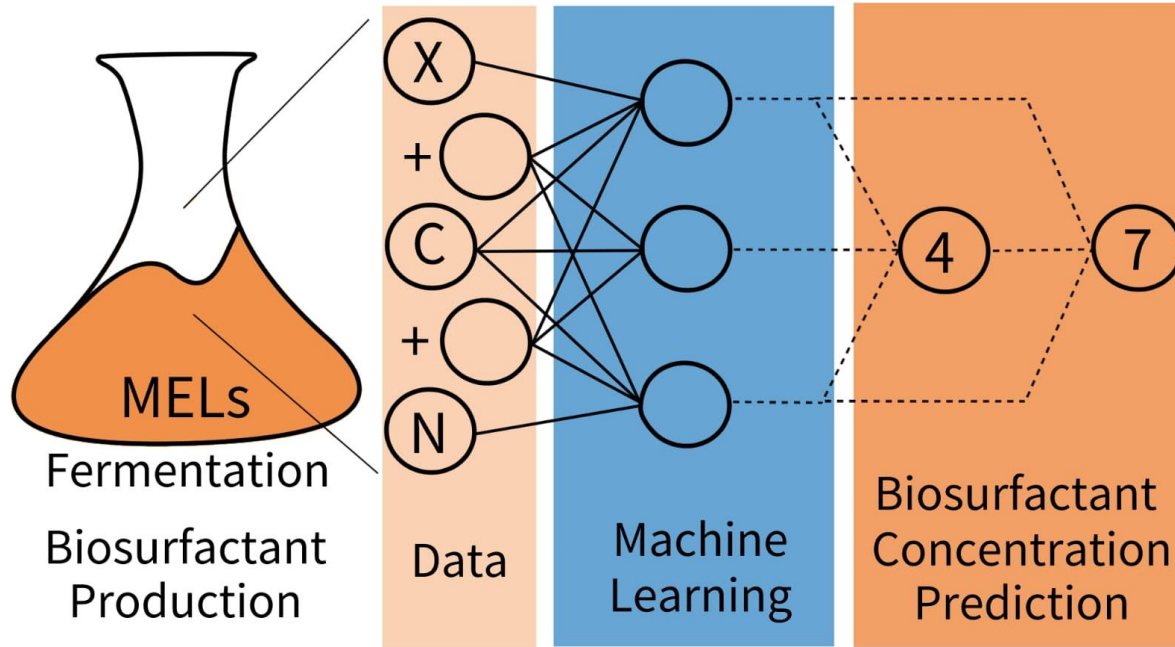


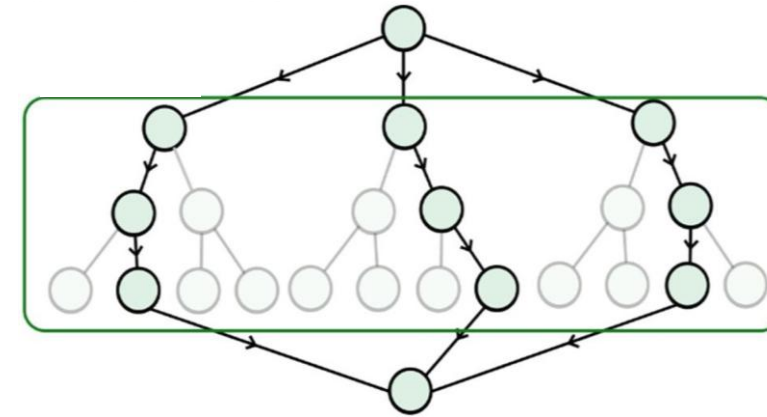
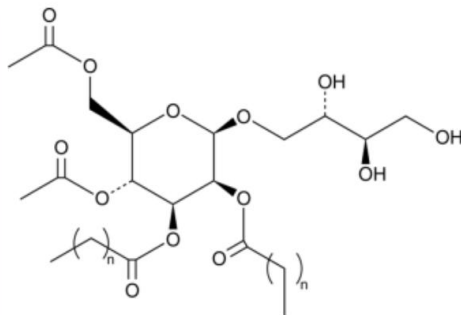
Forecasting of Mannosylerythritol Lipids Production using Artificial Intelligence Methods



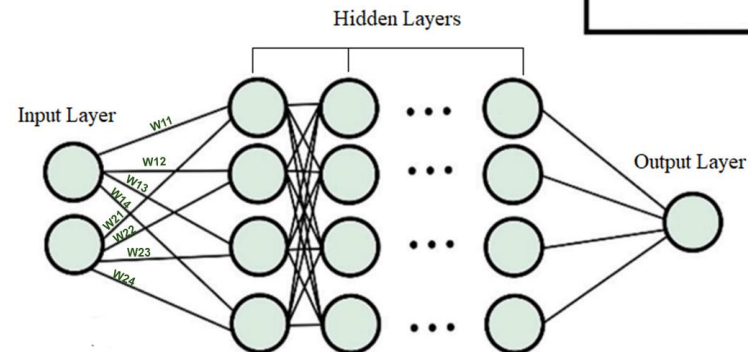
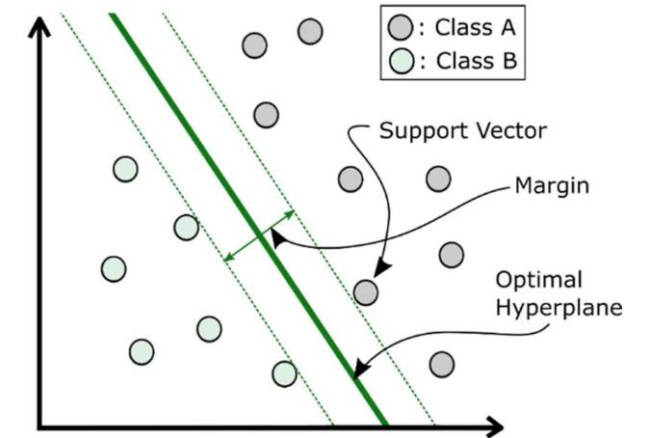
Case-study:

Mannosylerythritol lipids (MELs) fermentation

MELs are biosurfactants that can be used in the pharmaceutical and food industries



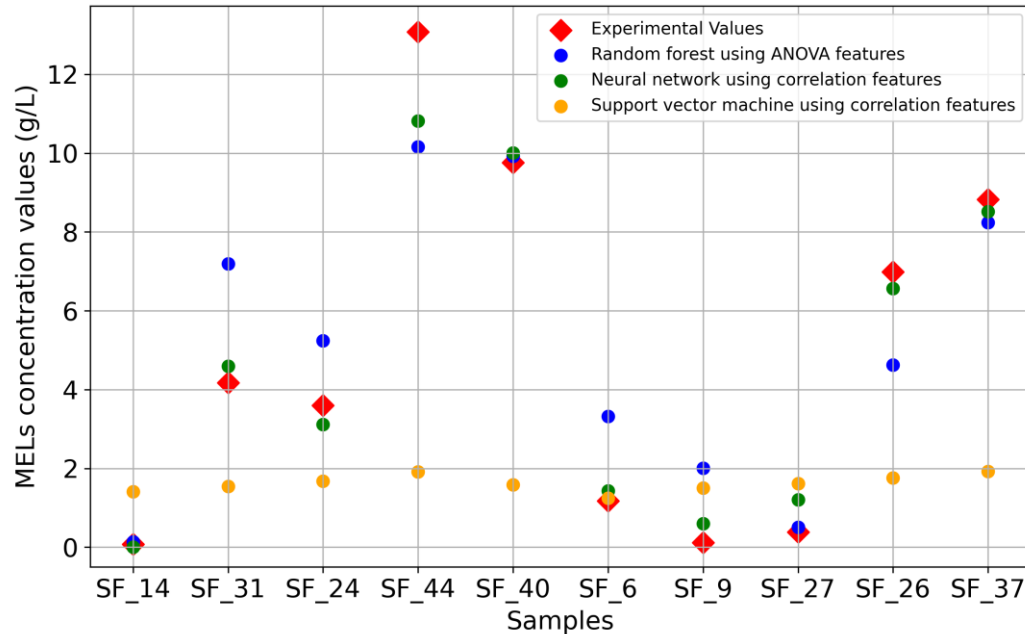
Support Vector Machine



Neural Network

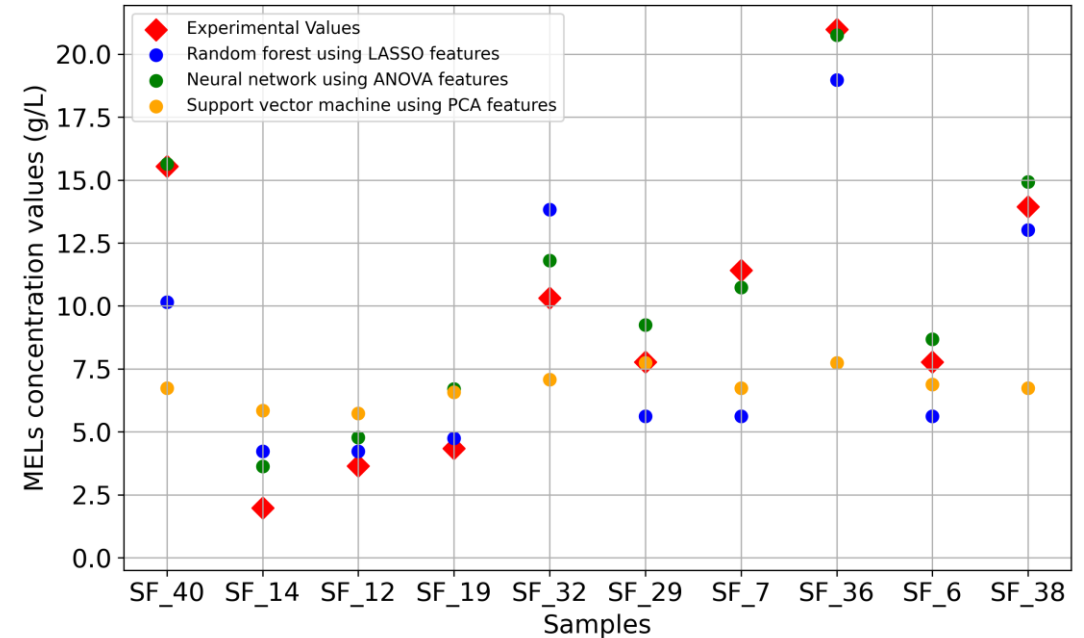
Forecasting of Mannosylerythritol Lipids Production using Artificial Intelligence Methods

Forecasting – Day 4



Models	Mean Squared Error	Mean Absolute Error
Random Forest	3.45	1.49
Support Vector Machine	28.24	4.08
Neural Network	0.69	0.58

Forecasting – Day 7



Models	Mean Squared Error	Mean Absolute Error
Random Forest	9.48	2.52
Support Vector Machine	36.25	4.63
Neural Network	1.63	1.10

Acknowledgments

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