Olga Savchuk

B.Sc. Ecology, Environmental Sciences and Sustainbility (Ukraine)

Thesis: 'Bio-remediation and forecasting of radio-ecological situation at the fodder lands of the flooded meadows'

M.Sc. Energy and Environmental Sceinces (The Netherlands)

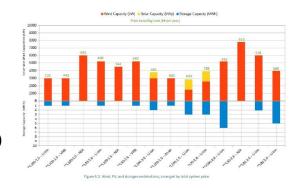
Thesis 1: 'Design and assessment of self-sufficient energy systems scenarios

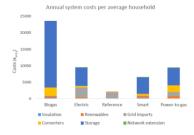
for Dutch communities'

Thesis 2: 'Assessment of decentralized energy systems: Case of the Netherlands'

Ph.D. Sustainable Energy Systems (Portugal)

Working title: 'Machine learning for Small-scale energy systems'







Machine learning building load prediction

Short-term cooling load prediction of a campus building based on time, weather and historical cooling load using seven machine learning techniques and different methods to extract the features.



Ray and Maria Stata Center – MIT, Wikimedia



Basic features

Engineering features

Statistical features

Structural features

Deep learning features

ML techniques

Multiple linear regression

Elastic net

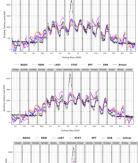
Random forest

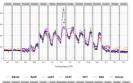
Gradient boosting machine

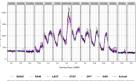
Support vector machine

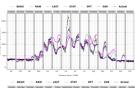
Extreme gradient boosting

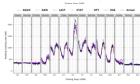
Deep neural network

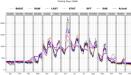
















Thanks



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