

T4.4 Machine Learning methods for the BuiltHub platform



Machine Learning theory

Theory

Literature review of machine learning approaches applied in the field of building stock analysis

BuiltHub building stock data

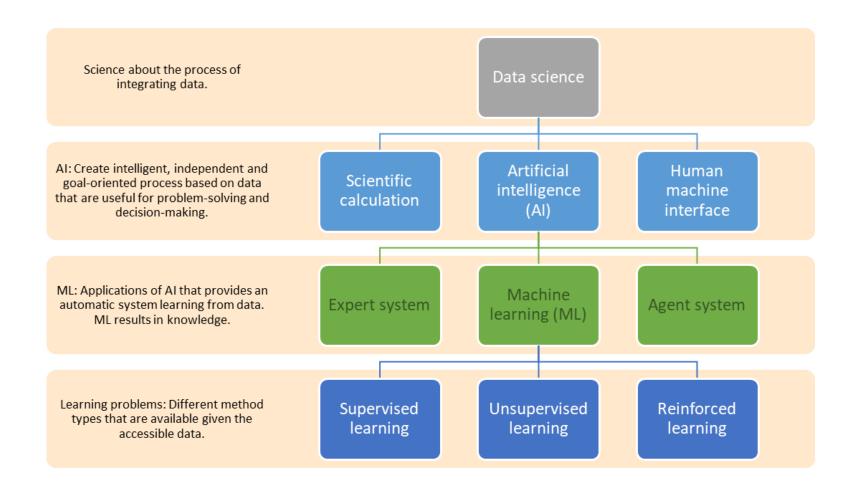
Define machine learning task scope and describe a workflow

Examples

Examples of machine learning applied in building stock analysis



Machine Learning theory





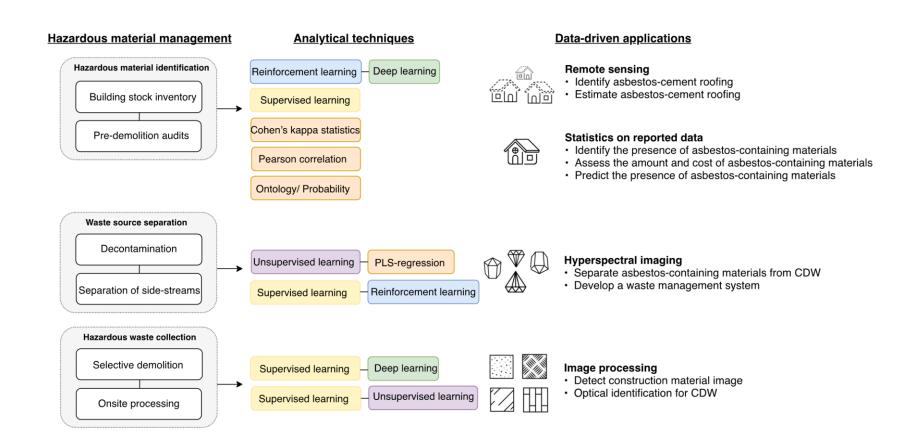
Developing an applied machine learning loop

hazardous materials in buildings] Organization needs Technical Domain solutions delivery consultation Algorithm Data screening development [Enriching the building database for energy retrofitting]

[Predicting the presence of

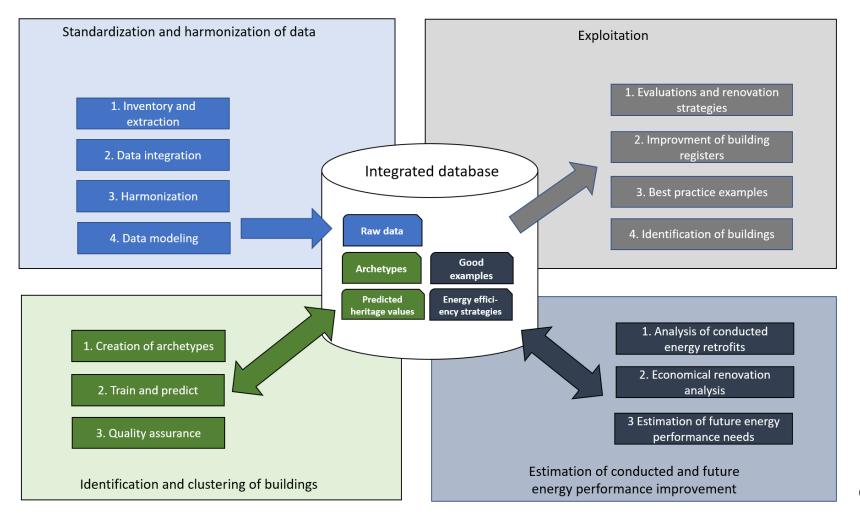


Example – predicting the presence of hazardous waste in the building stock

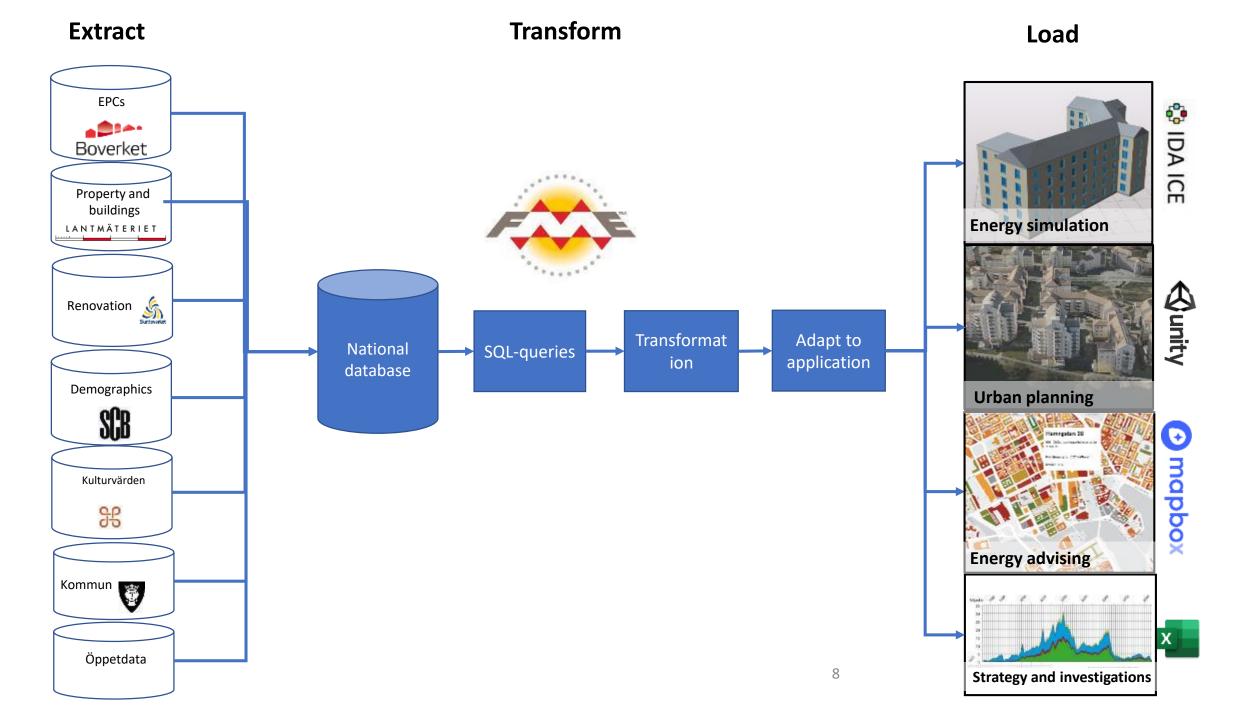


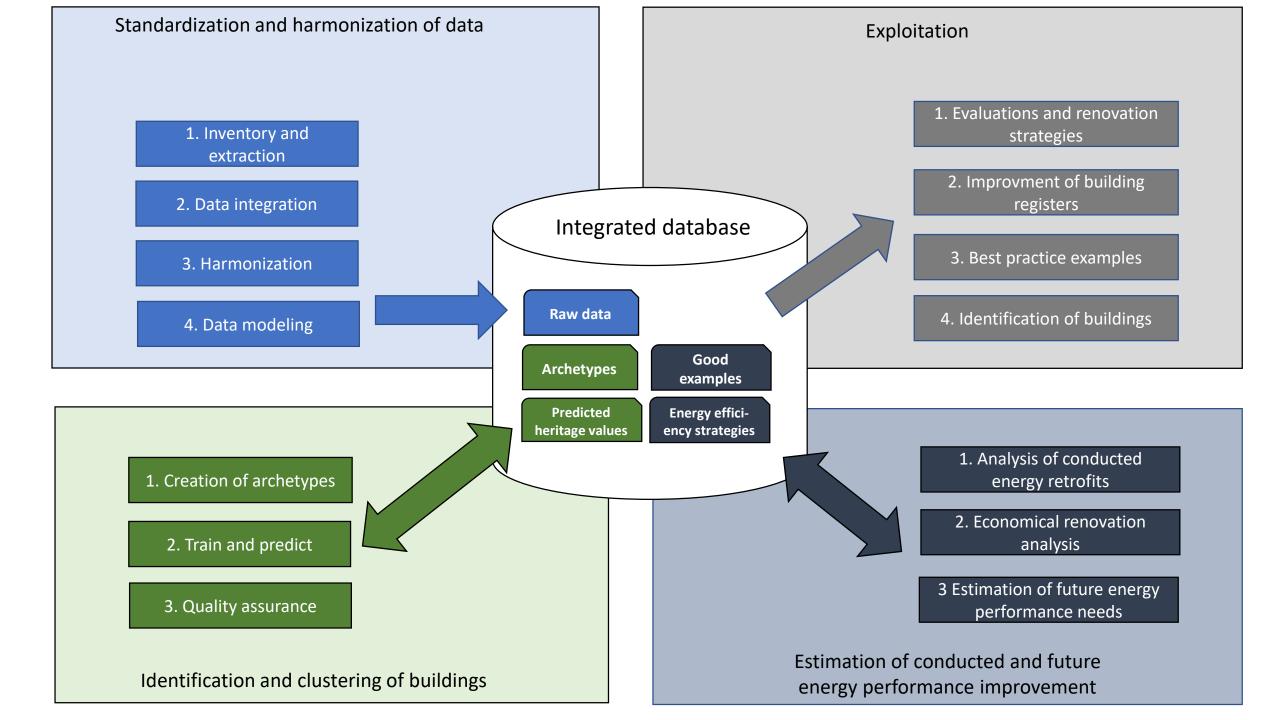


Example - Prediction of cultural heritage values in relation to energy efficiency requirements

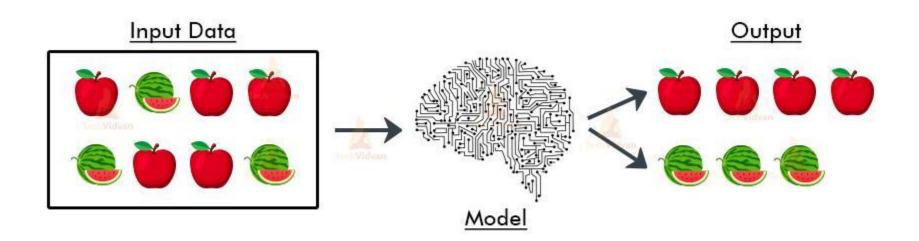








Test unsupervised learning







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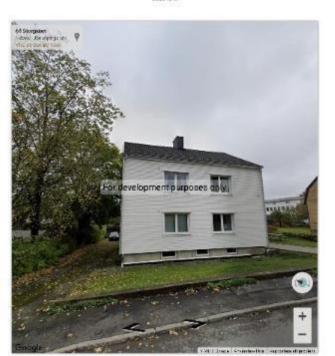






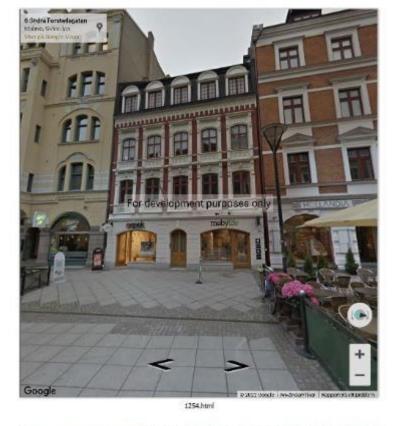


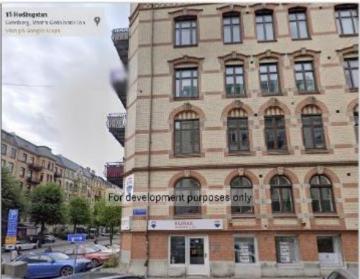
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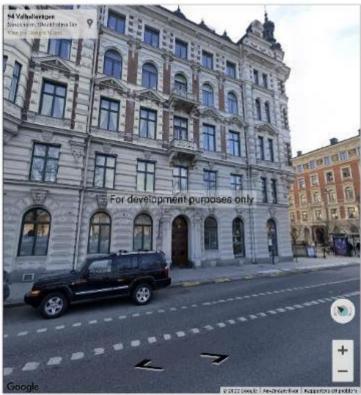




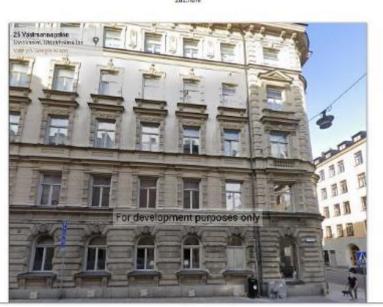
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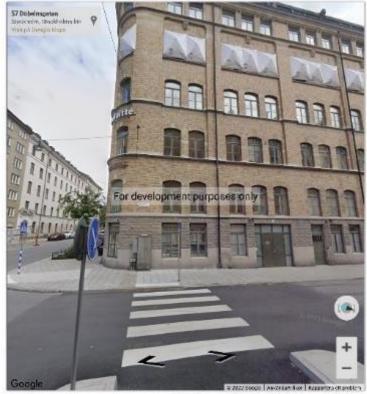






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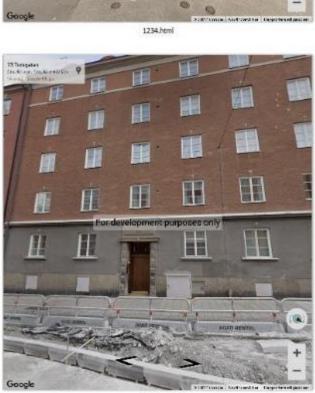




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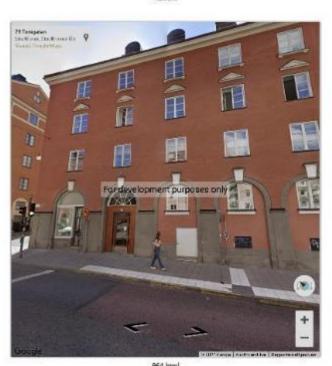


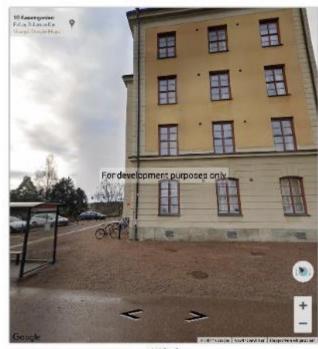






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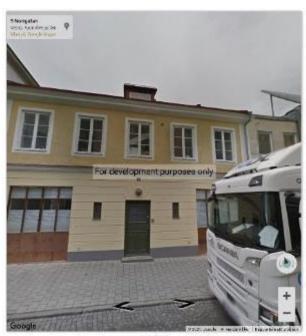






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