

Resources
Reading List:

Machine Learning Tom M. Mitchell , McGraw-Hill, available at USW Treforest library

Machine Learning, An algorithmic Perspective, Stephen Marsland, 2nd ed., CRC press, available at USW Treforest library

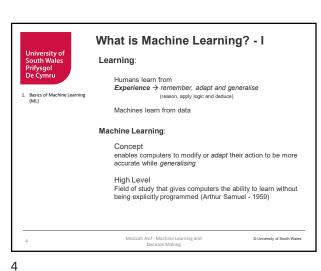
Pattern Recognition and Machine Learning, Christopher M. Bishop, Springer available at USW Treforest library

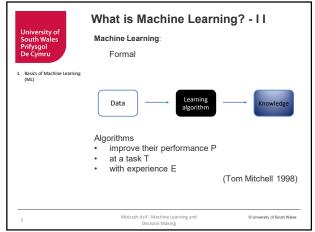
Other recommended readings:

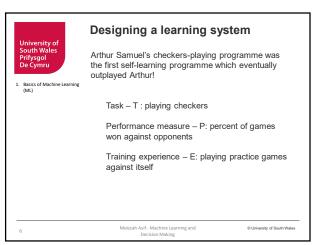
Introduction to Machine learning with Python, available at USW Treforest library

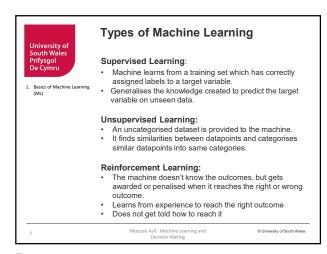
Hands-on Machine Learning with Scikit-Learn & Tensorflow, Aurelien Geron, O'relly, available at USW Treforest library

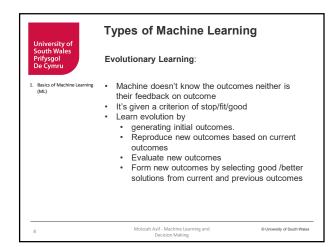
Applied predictive modelling, Max Kuhn and Kjell Johnson, Springer (eBook – access via university account while on campus)



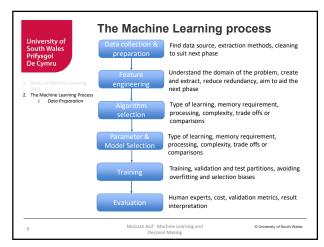


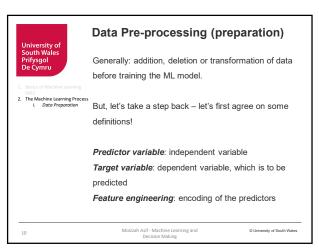




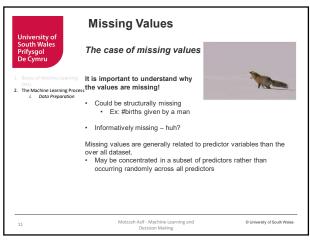


8



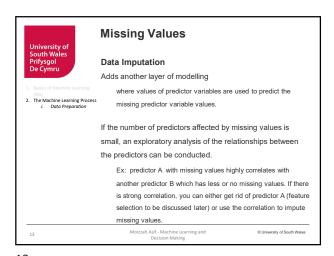


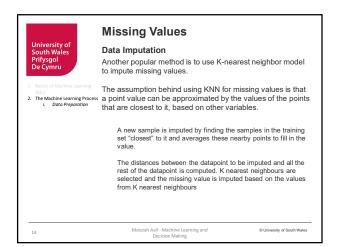
9 10

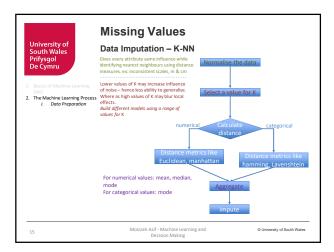


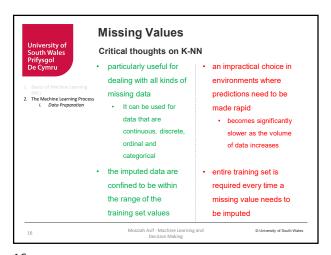


11 12

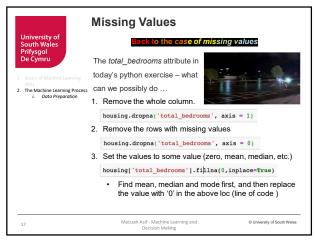


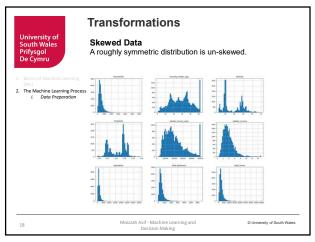




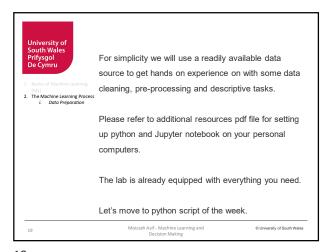


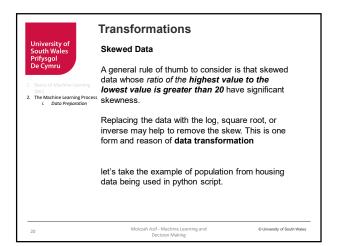
15 16

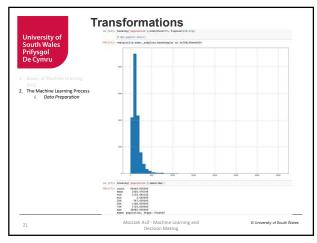


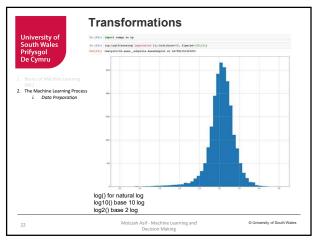


17 18

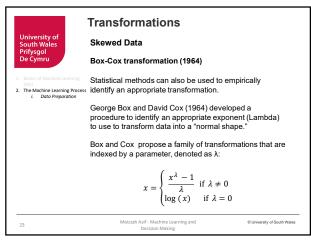








21 22



Transformations

Box-Cox transformation (1964)

the Box-Cox power transformation searches from

5 ≥ λ ≤ 5 until the best value is found

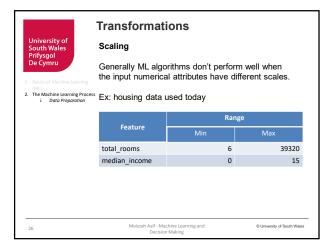
the method checks for the smallest standard deviation

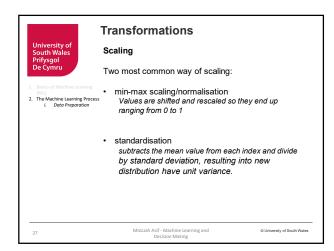
absolutely necessary to always check the transformed data for normality using a probability plot.

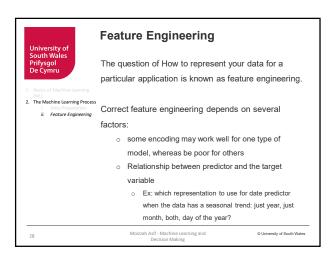
the Box-Cox Power transformation only works if all the data is positive and greater than 0

23 24

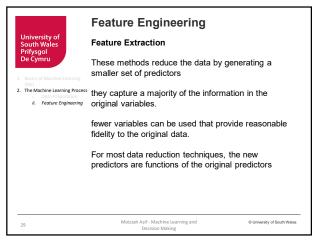


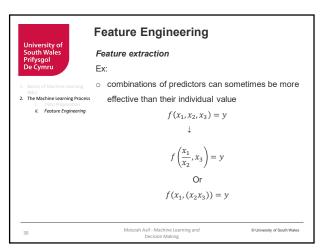




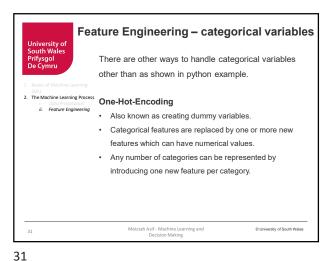


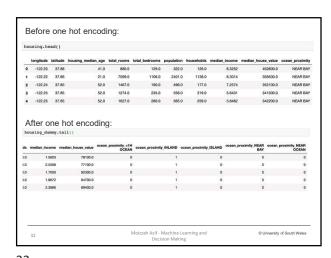
27 28

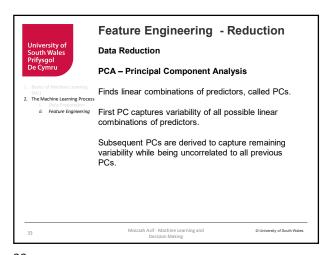


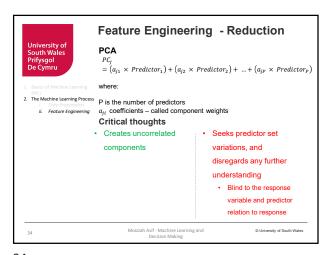


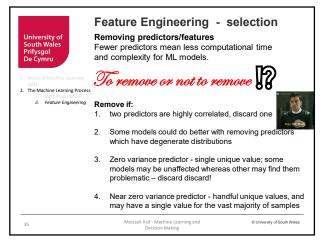
29 30

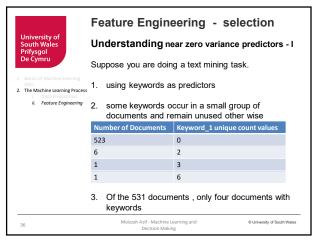


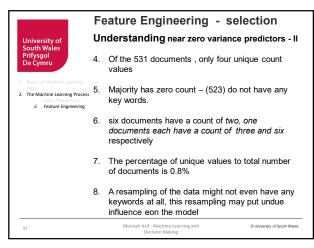


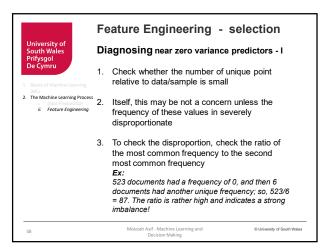


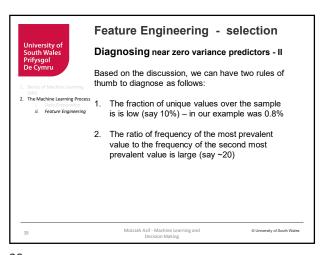


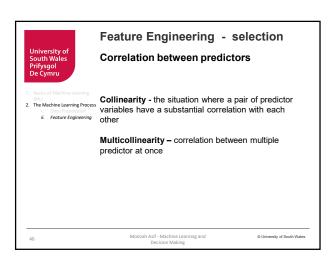




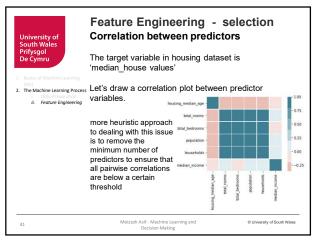


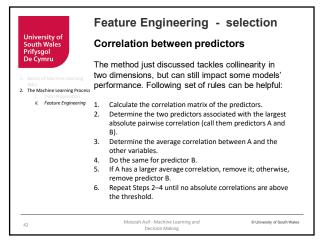




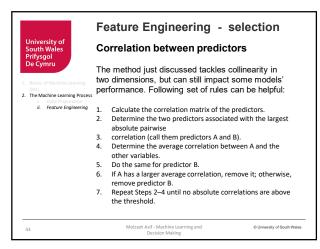


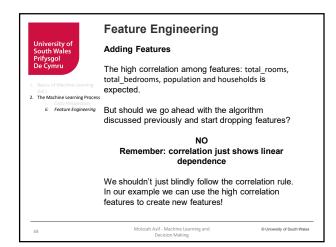
39 40

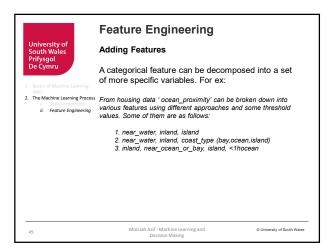


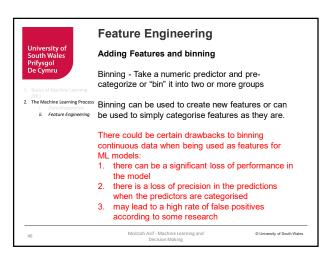


41 42

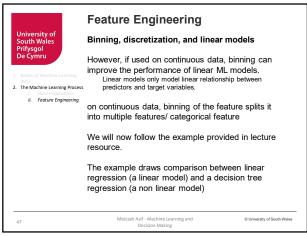








45 46



ഥ 47