

# Glimpse into Machine learning

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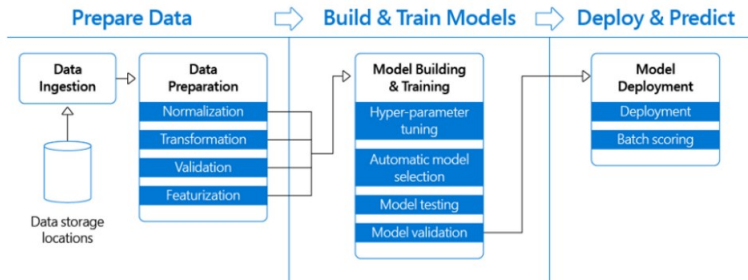
# Week 8: Learning objectives

- Prerequisites for Machine learning
- Machine learning workflow
- Machine learning versus Deep learning|AI
- Different types of Machine learning algorithms

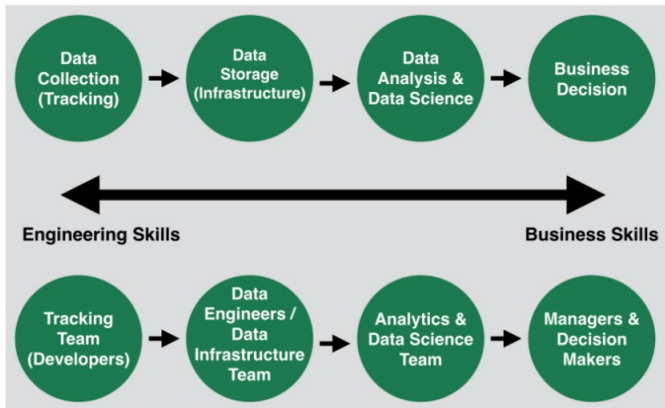
# Prerequisites for Machine learning

- Algebra and linear algebra (Matrix)
- Probability and statistics
- Calculus (derivatives)
- Programming language (Python, R, C++, Matlab)
- Terminal (shell)

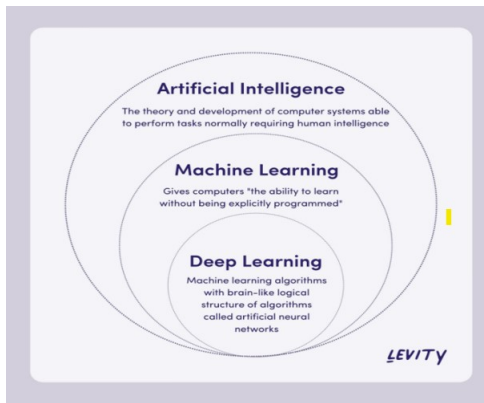
# Machine learning pipeline 1



# Machine learning pipeline 2

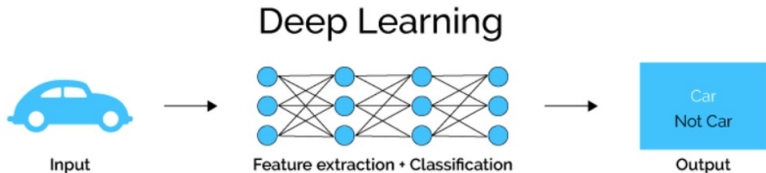
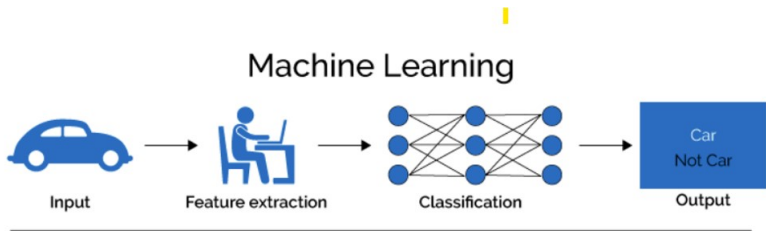


# Machine learning in bigger scope

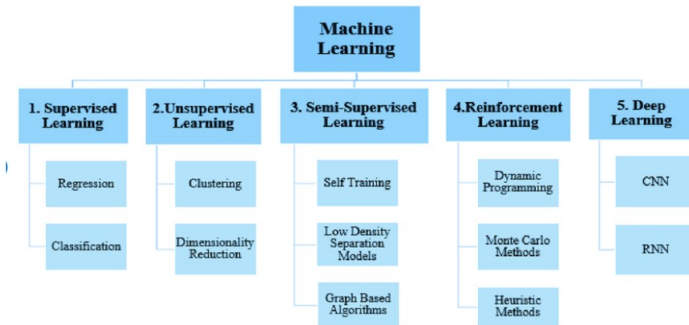


Machine Learning is a type of Artificial Intelligence. Deep Learning is an especially complex part of Machine Learning.

# Machine learning versus deep learning



# Different machine learning algorithms



Different machine learning types and algorithms.



# Sample machine learning projects

- <https://www.kaggle.com/dansbecker/your-first-machine-learning-model/tutorial>
- <https://www.kaggle.com/kanncaa1/machine-learning-tutorial-for-beginners#DATA-SCIENTIST>
- <https://jakevdp.github.io/PythonDataScienceHandbook/>
- <https://github.com/EthicalML/awesome-production-machine-learning>
- <https://www.analyticsvidhya.com/blog/2020/09/integrating-machine-learning-into-web-applications-with>
  - <https://github.com/NakulLakhotia/deploheroku>
  - <https://ml-with-flask.herokuapp.com/>

Deadline: 31 January, 2022

**Note:** Create a github repo from the start and populate it with your results

Project 1 дэх өгөгдөл болон түүний түүхэн өгөгдлүүдийг ашиглан Bokeh dashboard үүсгэнэ үү.

Жишээ:

- <https://github.com/bokeh/bokeh/tree/branch-3.0/examples/app/dash>

Thank you!