### Introduction

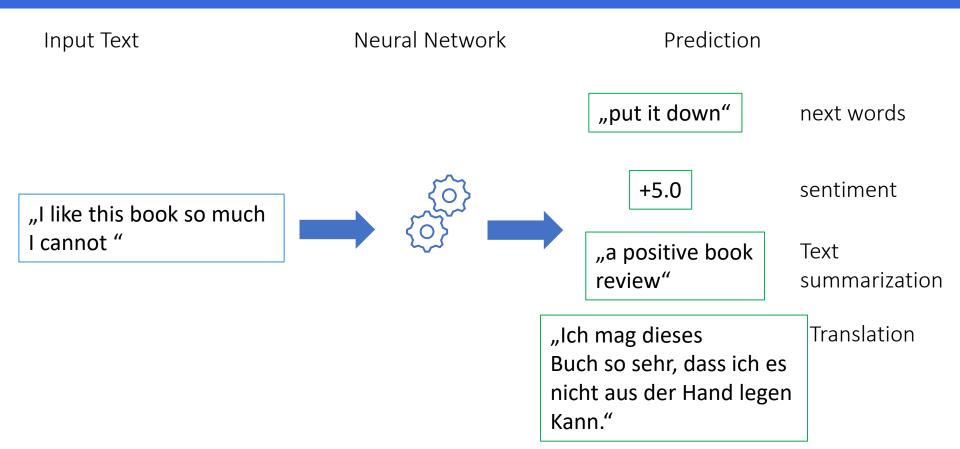
- Field of AI with focus on computers to understand, interpret, and generate human language
- Involves algorithms, usually Deep Learning, to analyze and manipulate text and speech
- Can extract meaningful insights from large amounts of unstructured text data, like social media posts, customer reviews
- Wide range of applications
  - Chatbots
  - Sentiment analysis
  - Translation
  - Speech recognition







**NLP Model Tasks** 



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Text is converted to numerical representation.

Neural Networks can only con sume numbers, not text!

Vocabulary

