

Before we get started, feel free to drop in the chat:

1

Who are you? (Introduce yourself, feel free to drop your LinkedIn)

2

Where are you based and current role

3

1 burning question you have about AI, NLP, or LLMs (to be addressed during Q&A)

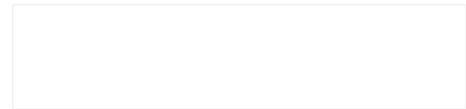
NLP from scratch



From Zero to NLP in 60

Monthly Webinar

www.nlpfromscratch.com



Housekeeping



Camera on if comfortable doing so



Stay muted unless speaking



Be professional



Materials will be shared after the meeting

Who am I?

- Data Scientist
- Career consultant (SapientNitro, PwC, Accenture)
- Trainer
- Human



What is Natural Language Processing?

**COMPUTATIONAL
LINGUISTICS**

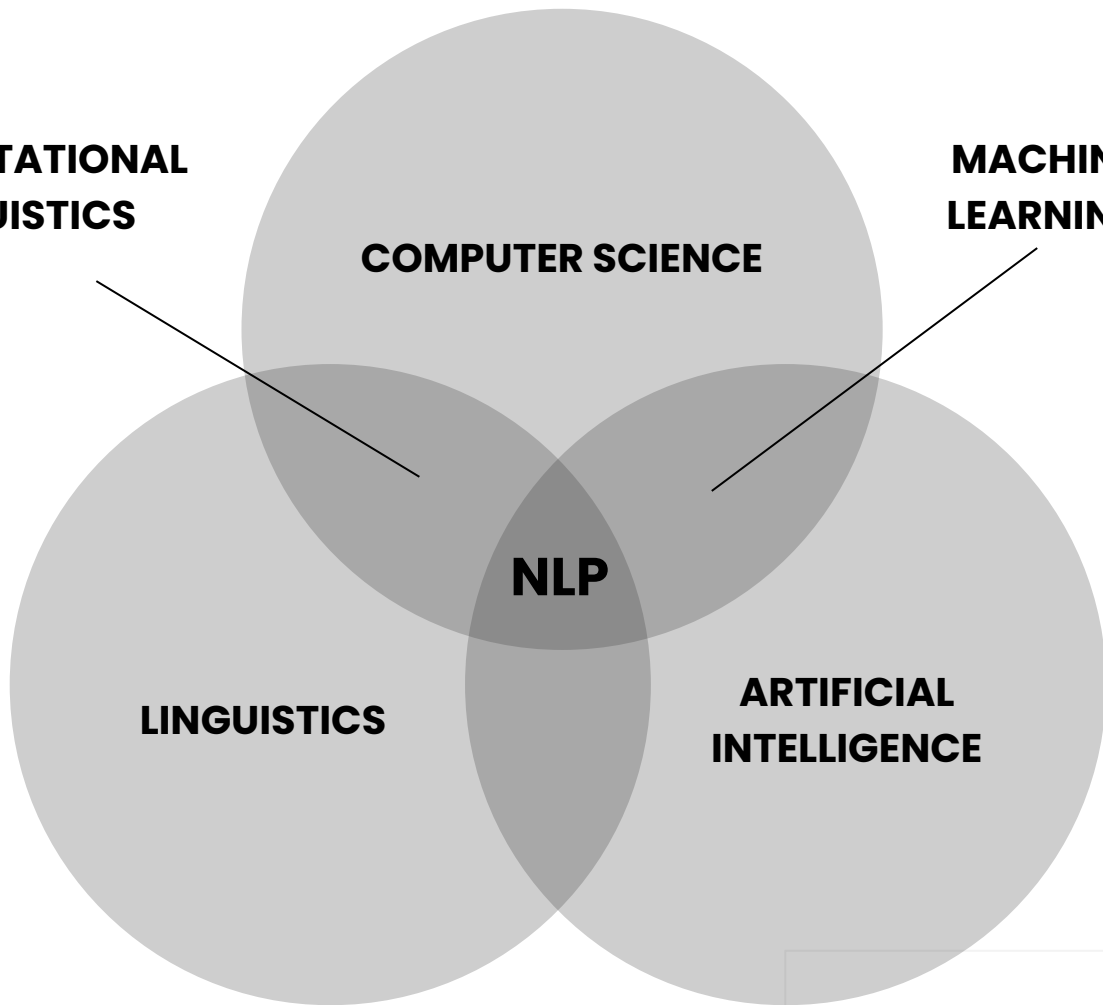
**MACHINE
LEARNING**

COMPUTER SCIENCE

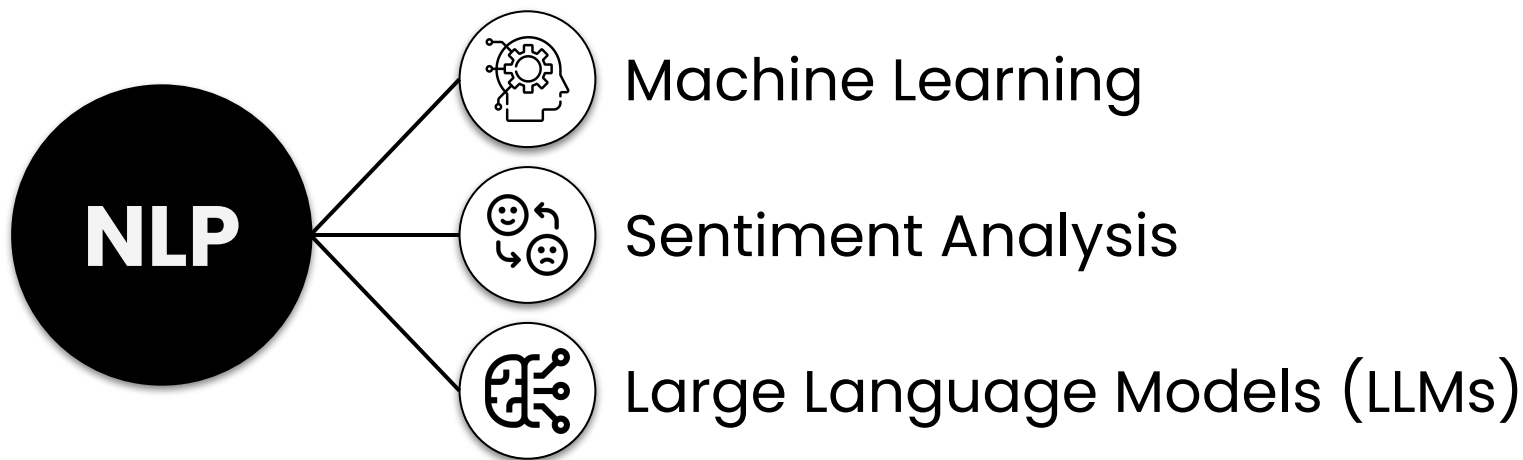
NLP

LINGUISTICS

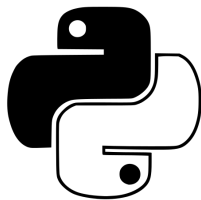
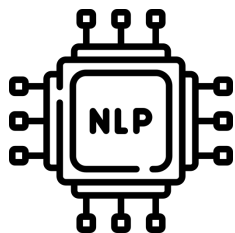
**ARTIFICIAL
INTELLIGENCE**



Today's Coverage

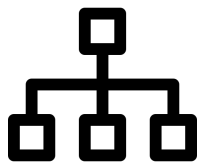


Working with Text in Python



pandas

Text Preprocessing Steps



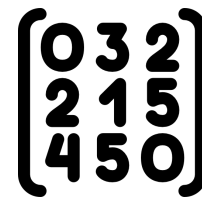
Tokenization

Break free-form text documents down into tokens: constituent units of language (usually words)



Normalization

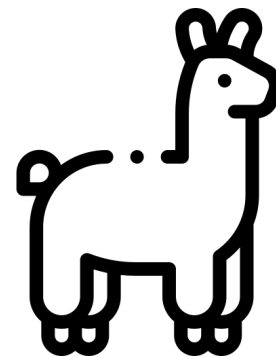
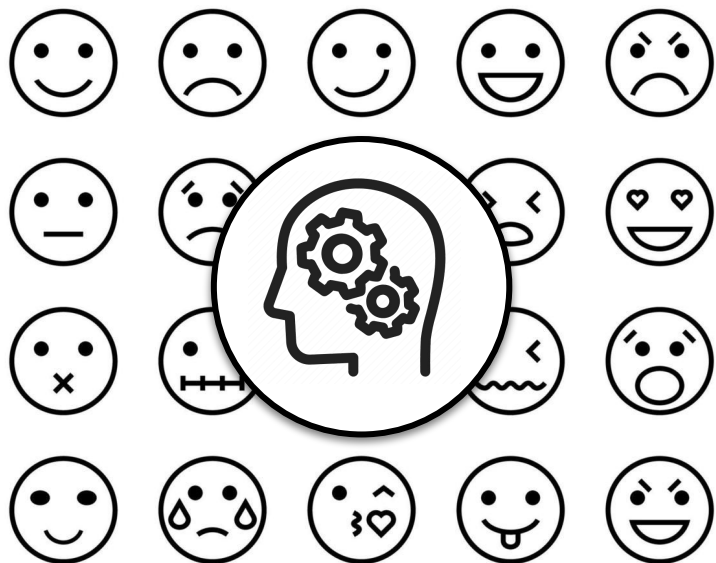
Apply techniques to reduce the noise and variance in the language data and standardize



Vectorization

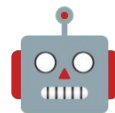
Convert text data to numeric features: structured data suitable for machine learning or analytics

Sentiment Analysis - Traditional ML vs. GenAI



 Meta

NLP4Free



<https://github.com/nlpfromscratch/nlp4free>

A Free Natural Language Processing (NLP) microcourse, from basics to deep learning

```
# Remove punctuation with regex
import re
my_review = re.sub('[^A-Za-z0-9\ ]+', '', my_review)

# Stem
my_review = ' '.join([ps.stem(token) for token in my_review.split()])
```



LLM and Generative AI Workshops



Generative Text Models & Fine-tuning LLMs

- Intro to Hugging Face
- LLMs for generative text
- Fine-tuning models
- PEFT (LoRA) and quantization



Building GenAI Apps with OpenAI and GPT

- Intro to APIs and OpenAI
- Working with the OpenAI API
- Setting up a dev environment
- Build a streaming chat app
- Open source alternatives to GPT



Intro to Python & Natural Language Processing

- Intro to NLP
- Intro to Python
- Working with text in Python
- Manipulating text in Pandas



GenAI for Work (1 hr)

- Introduction to GenAI
- Generative AI landscape
- Everyday use cases for GenAI tools
- Prompting and prompt engineering
- Productivity with GenAI

Today ●



December 2023



Filters ▾

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						2
	3 ●	4	5	6	7	8
	What the Heck is a...	Deconstruct Care...		Zero to NLP in 60...		
10	11	12	13	14	15	16
Large Language M...			What the Heck is a...		Large Language M...	
17	18	19	20	21	22	23

Sign up at nlpfromscratch.com/training!

Upcoming events
Dec 01 - Feb 2

- DEC 04 What the Heck is a LLM? - F...
- DEC 05 Deconstruct Care Progress
- DEC 07 Zero to NLP FREE Wo
- DEC 11 Large Language Models a
- DEC 13 What the Heck is a LLM? - F...

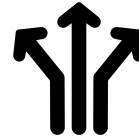
Manifesto



Knowledge is only valuable if it is useful.



The best way to learn is by doing.



Learning is a non-linear process.



Learning is exploration, not a journey.



Teaching and learning are complementary.

I would value your feedback.



NLP from scratch



Learn natural language processing. From A to Z. From zero to hero. Fast.

www.nlpfromscratch.com