

Introduction to Text Analysis and Natural Language Processing (NLP) in Python

EWERT HOUSE, OXFORD

Programme

Saturday 19 March 2022

8.45am	Registration
9.00am	What is Natural Language Processing?
10.00am	Introduction to Python
11.00am	Coffee/tea
11.15am	Practical (Python Fundamentals)
1.00pm	Lunch
2.00pm	Getting started with Text analysis in Python
3.00pm	Practical (pandas and regular expressions)
4.00pm	Coffee/tea
4.15pm	Machine Learning Fundamentals
5.30pm	Course ends for the day

Sunday 20 March 2022

9.00am	Practical (training your first classifier)
10.15am	Coffee/tea
10.30am	Logistic Regression & Naive Bayes - in depth
12.00pm	Introduction to Word Embeddings
1.15pm	Lunch
2.30pm	Putting it all together - a case study
4.00pm	Recap & Presentation of Additional Resources & Final words
4.45pm	Course disperses

Recommended Reading:

Jurafsky, D. and J.H. Martin, *Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition* (Prentice Hall)

Loper, E., E. Klein and S. Bird, *Natural Language Processing with Python* (O'Reilly)

VanderPlas, J., *Python Data Science Handbook* (O'Reilly)

List of introductory books: <https://wiki.python.org/moin/IntroductoryBooks>

Tutor:

Lisa Chalaguine

NLP Data Scientist at Qualimental Technologies and Freelancer (NLP Consultant & Coach)