



History



120 min

Educator's
Guide

As A Matter Of Fake



Summary: Learners will investigate fake news and deliberate online falsehoods by analyzing texts using natural language processing.

Key Concepts

Fake News
Natural Language
Processing
Term Frequency

Software

Jupyter Notebook
Python

Instructional Objectives

Learners will be able to:

1. Investigate fake news and deliberate online falsehoods
2. Gain familiarity with coding in Python for data science projects
3. Understand the significance of evaluating texts and documents in history

Learning Outcomes

- Use Jupyter Notebook to learn the basics of natural language processing (NLP)
- Evaluate a text of its truthfulness and accuracy in reporting with NLP

Real World Application

When we look at today's information overflow on the Internet, it is increasingly becoming harder to filter fact from fiction. Natural Language processing is a possible solution to this.

As A Matter Of Fake

1. Lesson Overview

	Activity	Innovation Skill
Introduction (15 min)	Discuss the concept of fake news and its impact across society.	
Slides 1 – 9	Introduce techniques used by purveyors of fake news.	
Development (90 min)	Learners try out basic NLP-based coding to decipher context based on keywords detected using NLP.	Computational Thinking (Pattern Recognition)
Slides 10 – 30	Learners enable Machine Learning to connect between keywords discovered in order to determine if an article is fake or real, and label accordingly.	AI & Machine Learning (Natural Language Processing)
Conclusion (15 min)	Learners chart their thinking on how to use the results of their coding and consider other avenues to detect fake news.	
Slides 31-33		

