



AI Fake News Identifier



Problem of the digital age: Fake news

Number of deepfakes is steadily increasing

Spreading misinformation on political, economic and social issues (cyber propaganda)
Verbreitung von Falschinformationen zu politischen Themen (Cyber-Propaganda)

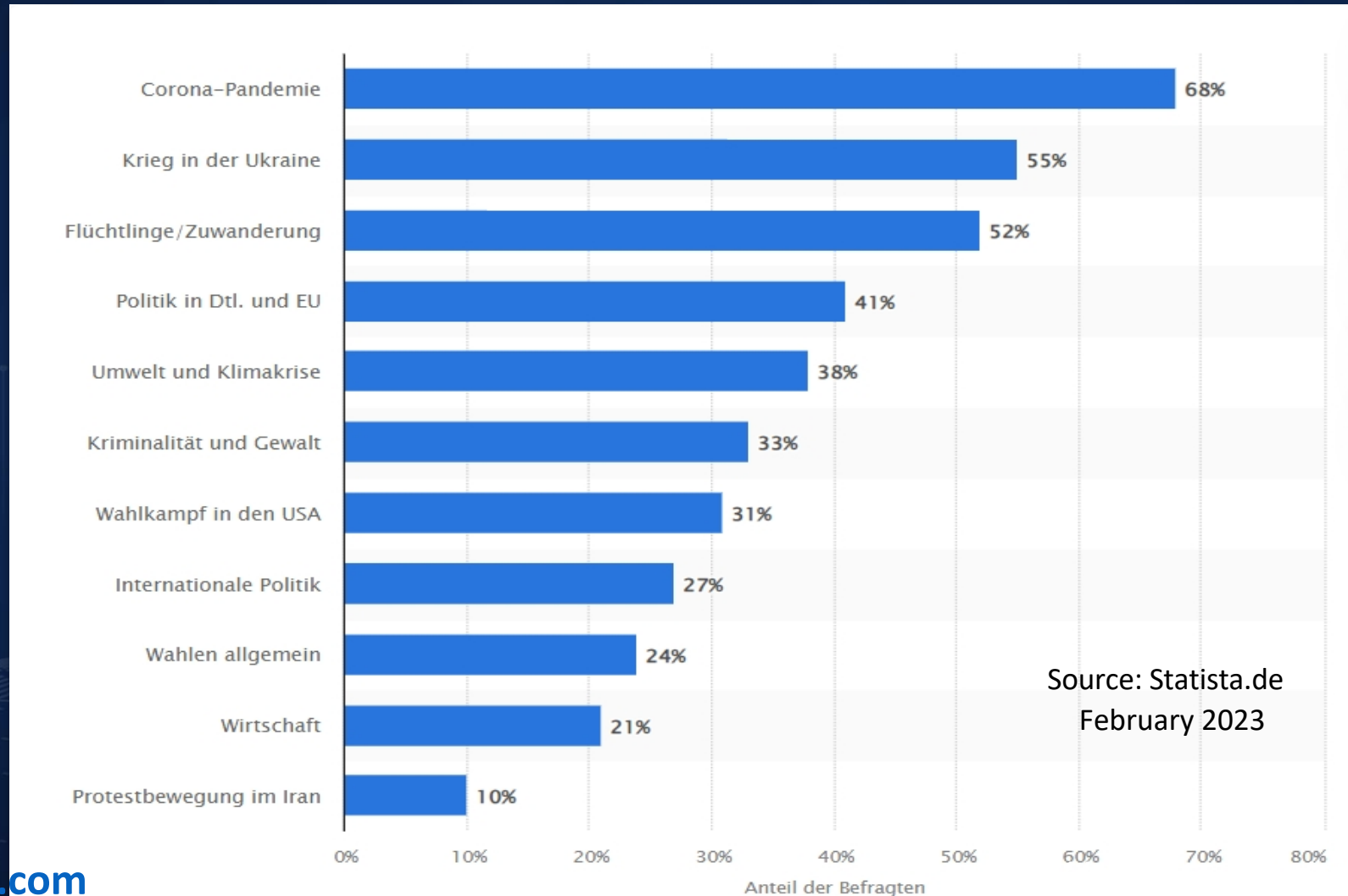
Hard to distinguish deepfakes from real information
Deepfakes kaum von echten Informationen zu unterscheiden

Represents a major problem for the values of democracy - e.g. in the manipulation of elections
Stellt ein großes Problem für die Werte der Demokratie dar – z.B. bei der Manipulation von Wahlen



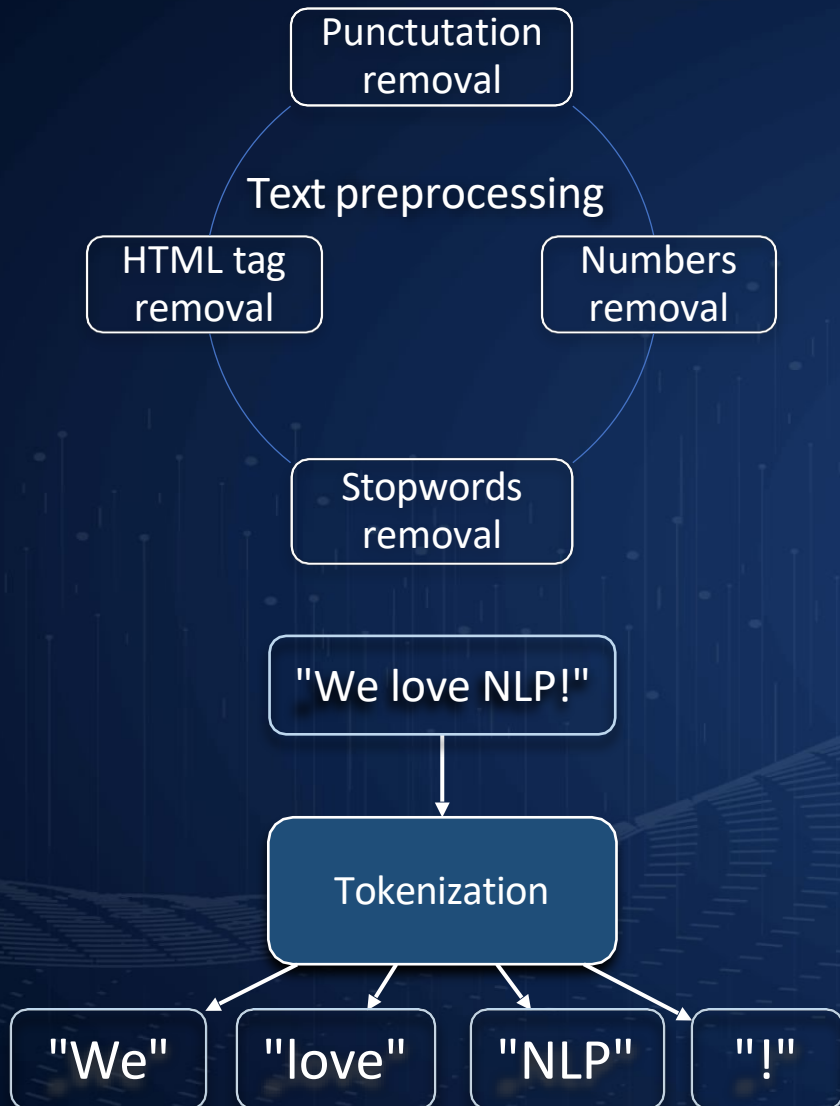
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Perception of fake news by topic in social media 2023 (610 people)



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Project-Overview 1/2



Scraper

- Reading and saving the content of classified sources

Text pre-processing (text pre-processing)

- "Cleaning" the text of stop words and punctuation marks

Tokenization

- The process of tokenizing or splitting a text or string into a list of tokens



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Project-Overview

2/2

Word embedding

	Alive	Wealth	Gender
Man	1	-1	-1
Queen	1	1	1
Box	-1	0	0



Word embedding matrix

- "Word embedding" or "word vector" is a numeric vector input that represents a word in a low-dimensional space
 - Words with similar meanings have similar representations

Training the model

- Training the model with training data to generate accurate predictions.
- If incorrect results occur: Adjust the parameters → Train the model again

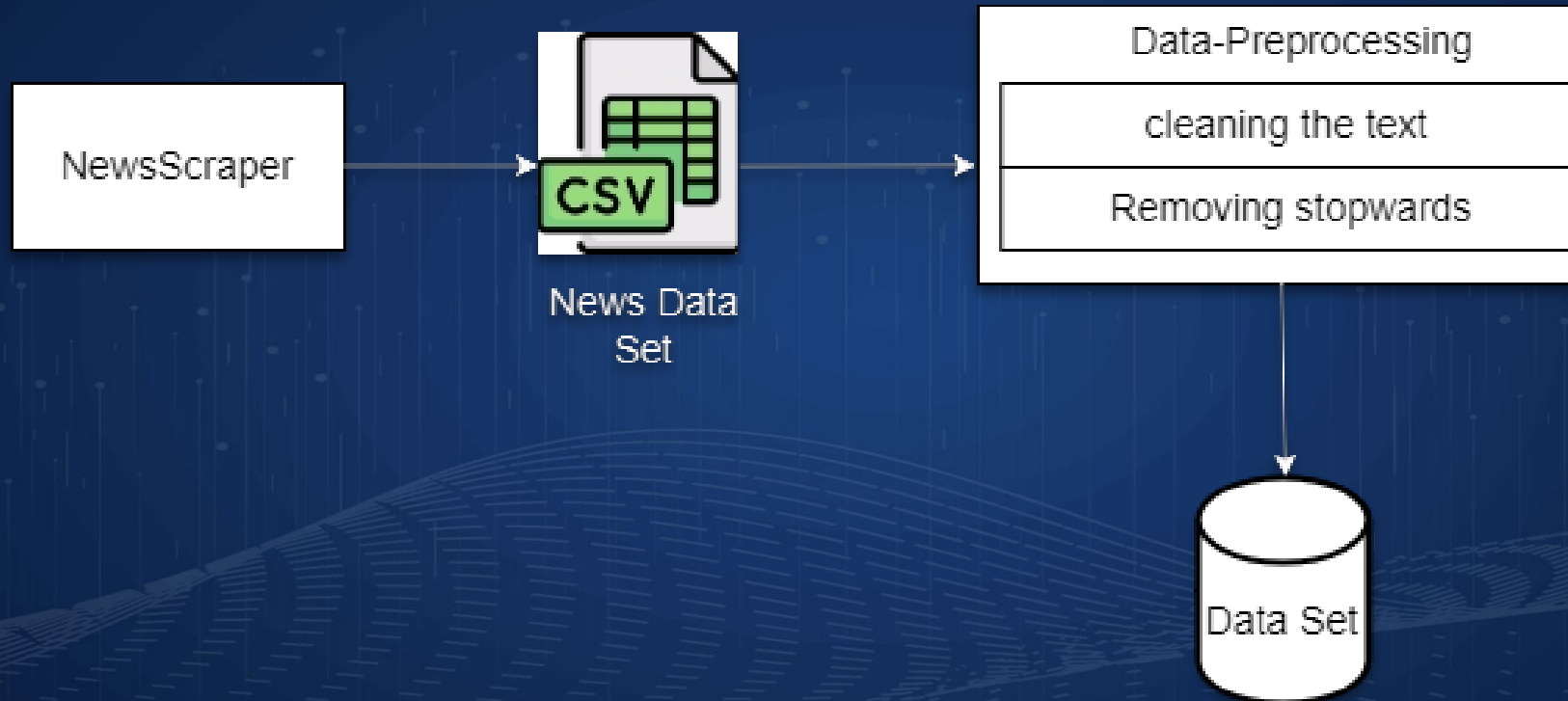
Creating a web application

- Creation of a graphical user interface (GUI) with login system



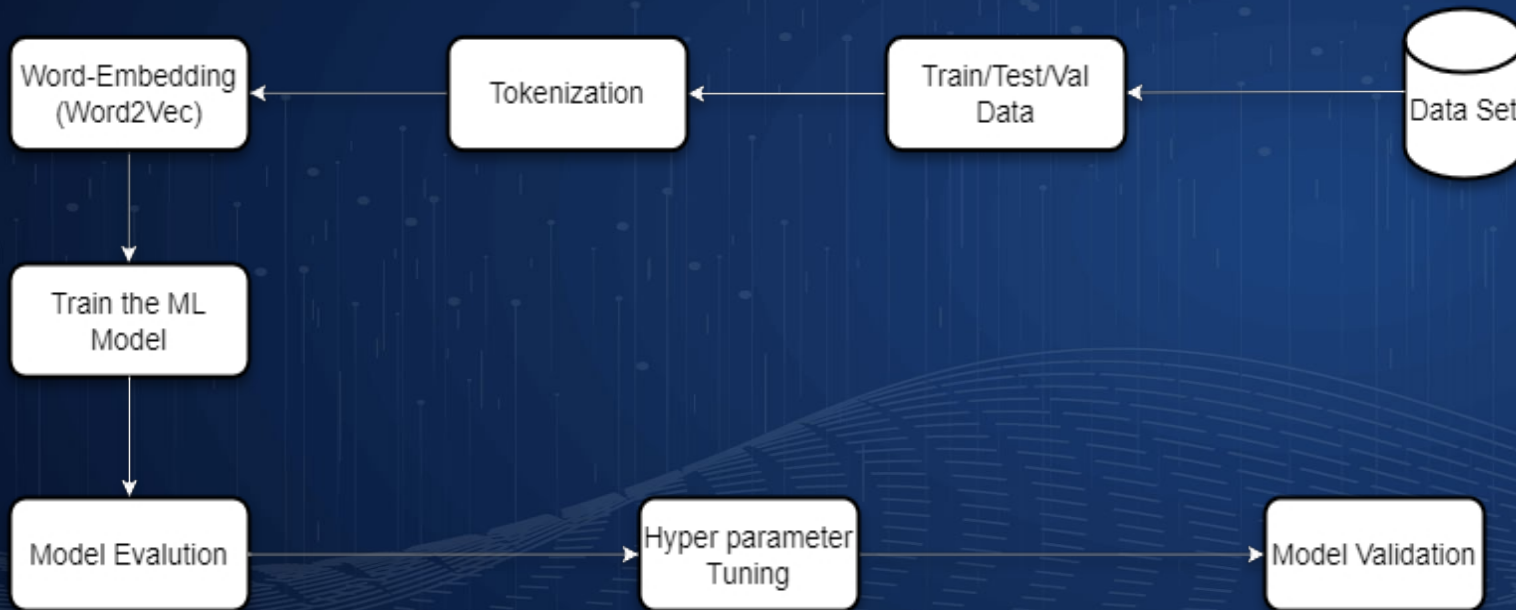
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Workflow - Exporting and pre-processing data



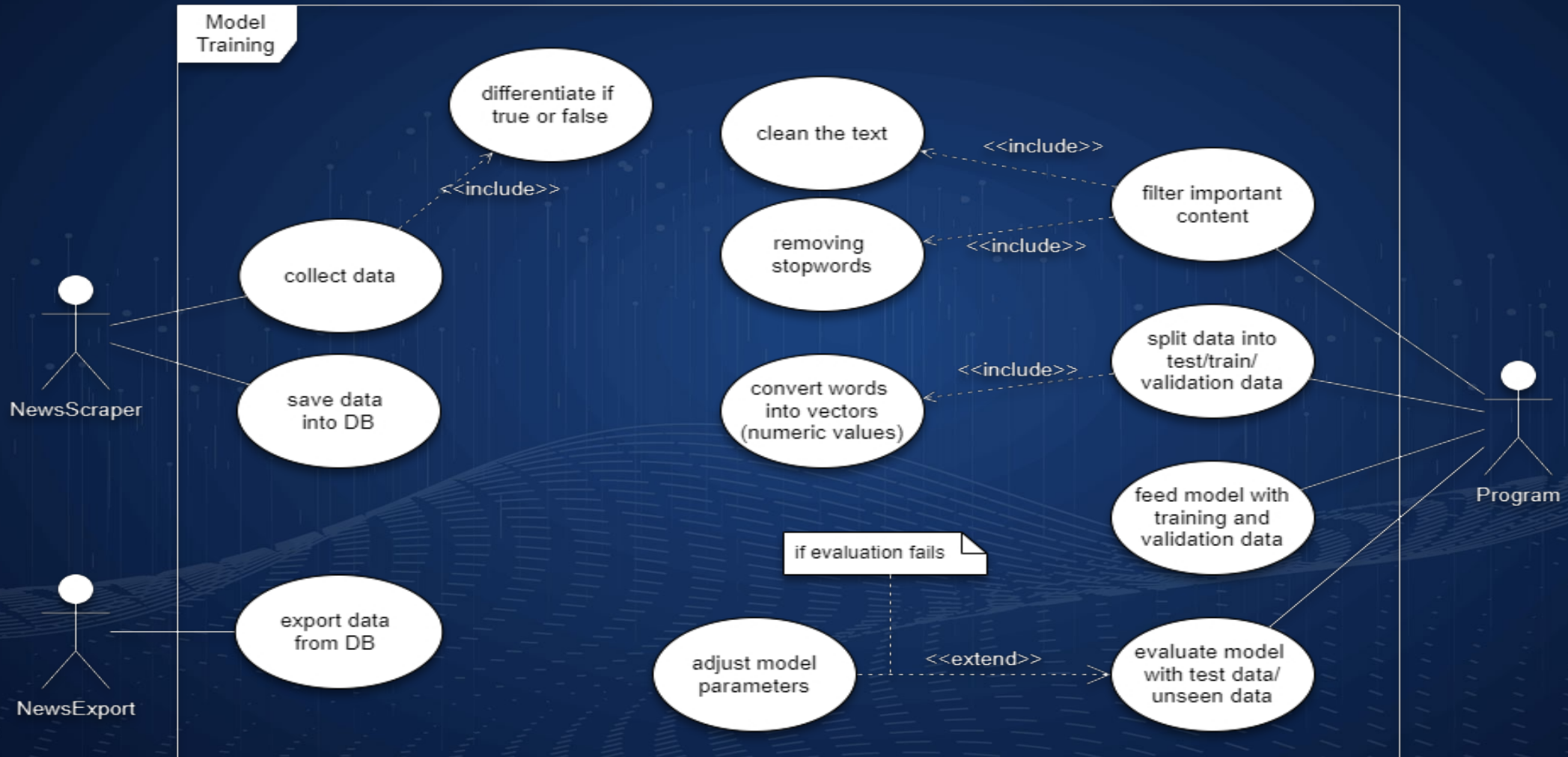
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Workflow model Training



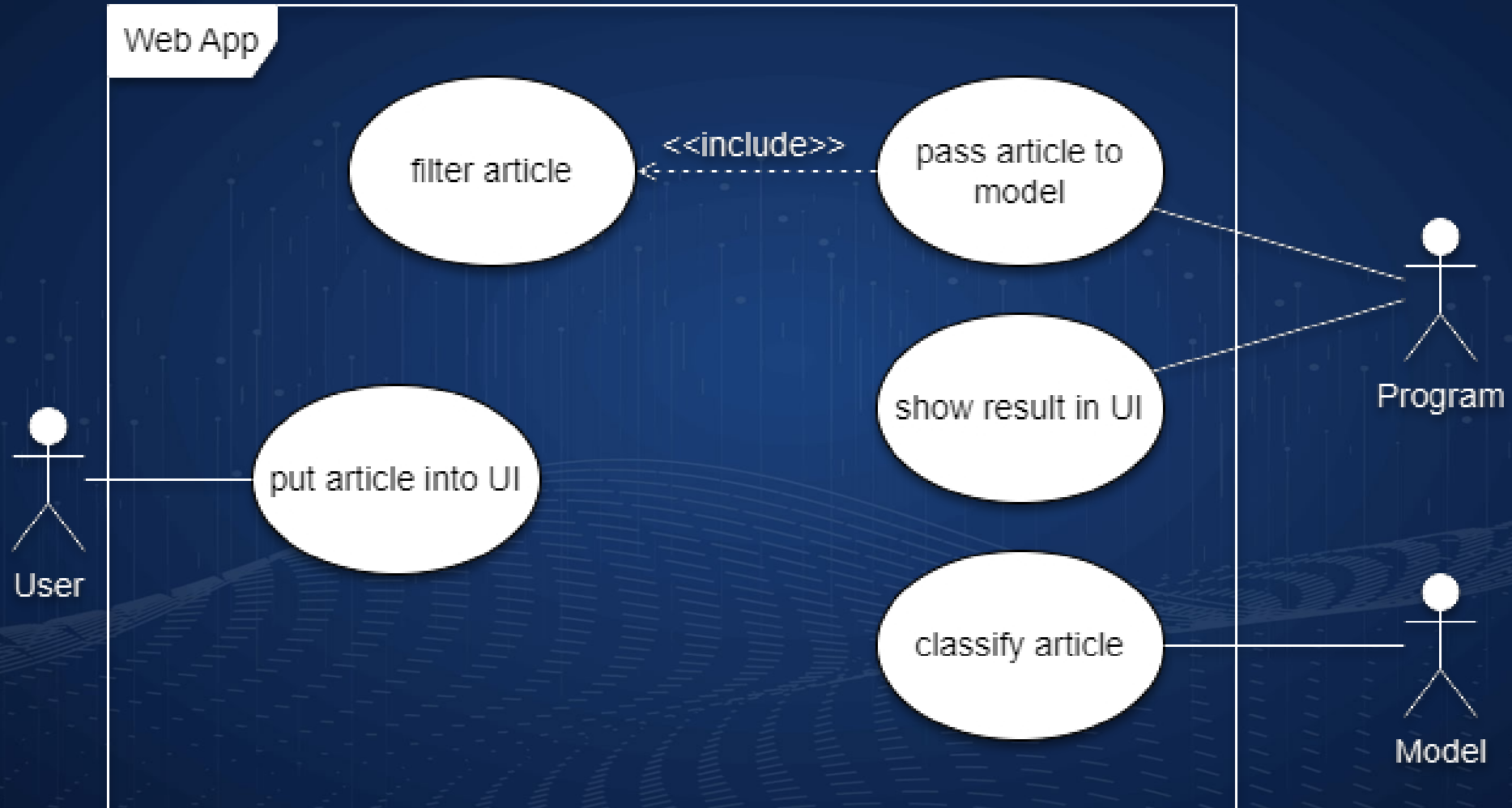
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Use Case Diagram - Model Training



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Use Case Diagram - Web App



Many thanks
for
Your attention!



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