PRESENTATION

ON

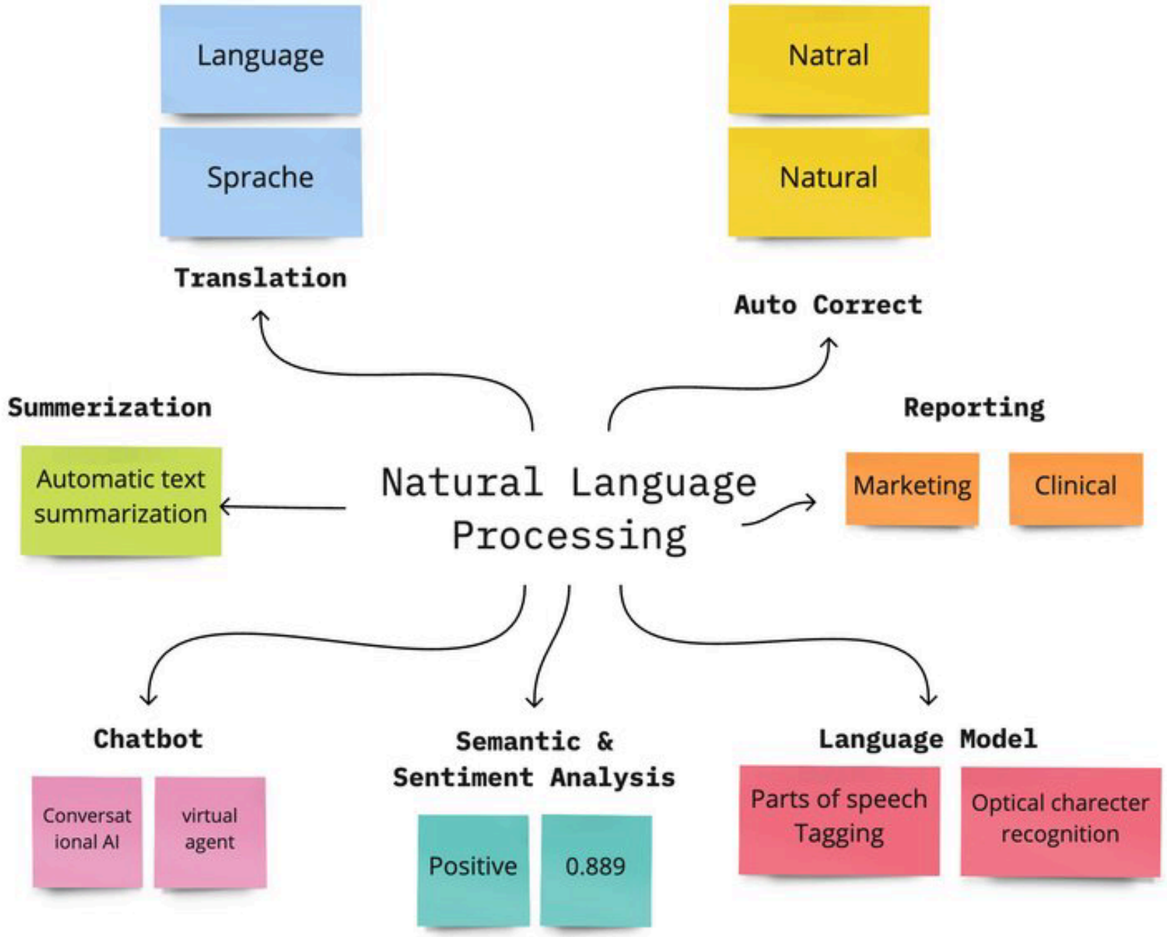
NATURAL LANGUAGE PROCESSING

INTRODUCTION

What is NER ?

- Identifies named entities in text.
- Classifies people, places, organizations.
- Used in search and data extraction.
- Relies on machine learning or rules.
- Improves NLP tasks like summarization.

NLP ARCHITECTURE



NAMED ENTITIES

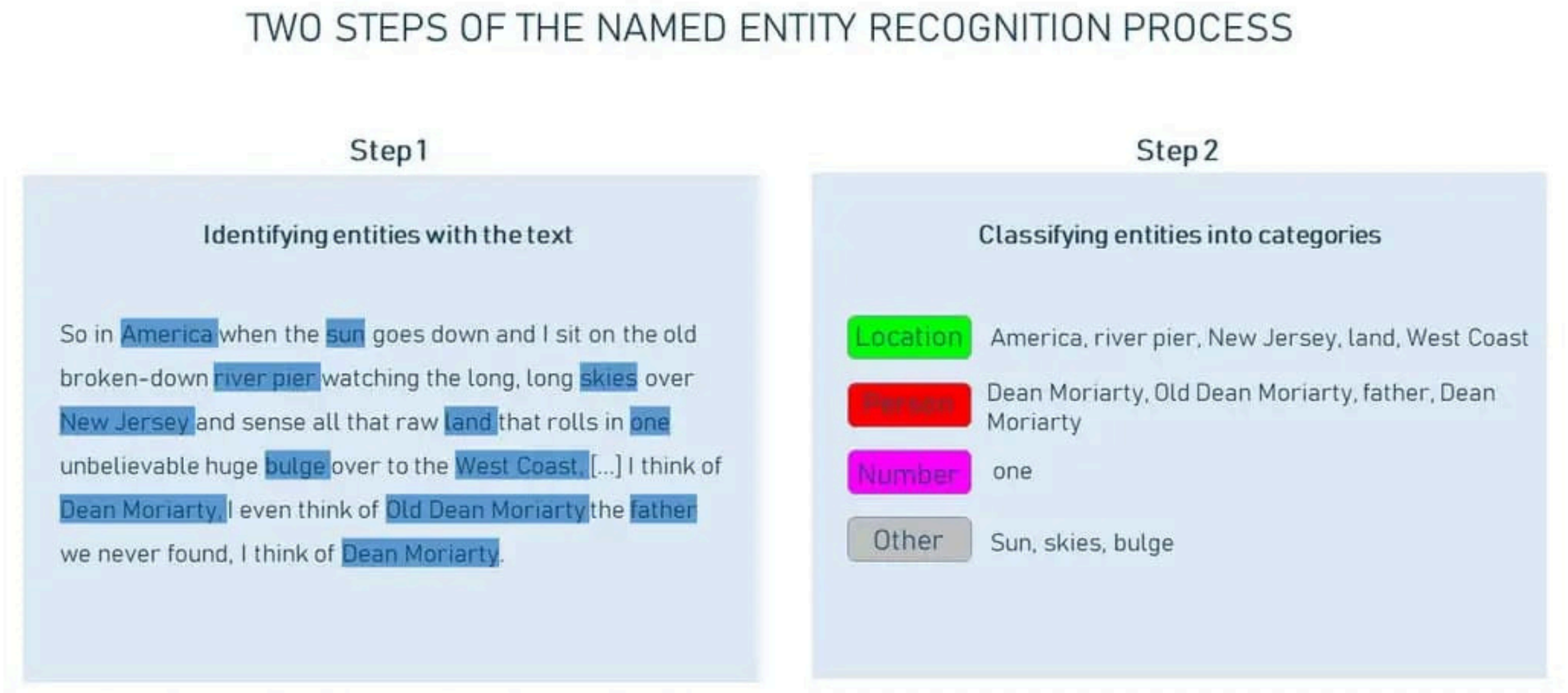
- A named entity is a "real-world object" that's assigned a name – for example, a person, a country, a product or a book title
- Person, Organization, Location, Date/Time, Monetary Values, Percentages, Product, Event, Language, Facility, GPE, Quantity, Percentage/Rate.

NAMED ENTITY RECOGNITION

- Numerical, such as cardinal numbers
- Temporal, such as dates
- Nominal, such as names of people and places
- Political, such as geopolitical entities (GPE)

“Named entity recognition, or NER, is the process by which a system takes an input of unstructured data (a text) and outputs structured data, specifically the identification of entities.”

NER INPUT AND OUTPUT



APPLICATIONS OF NER

- Categorizing text
- Content discovery
- Recommendation systems
- Entity linking
- Relation extraction
- Coreference resolution

CONCLUSION

- NER identifies and classifies key entities like people, locations, and organizations in text.

- It enhances data extraction, search results, and decision-making by structuring unstructured data.

THANK YOU