

1. How does NER differ from POS tagging in NLP?

NER (Named Entity Recognition) identifies and classifies real-world entities in text, such as people, organizations, locations, and dates.

- POS tagging (Part-of-Speech tagging) assigns grammatical labels (e.g., noun, verb, adjective) to each word in the text, without identifying entities.
- NER: "Barack Obama" → PERSON
- POS tagging: "Barack" → Proper Noun, "Obama" → Proper Noun

2. Describe two applications that use NER in the real world (e.g., financial news, search engines).

- Financial News: Automatically identifying company names, financial events, stock ticker symbols, and monetary values for quick insights and trading decisions.
- Search Engines: Enhancing search results by identifying entities within queries to provide relevant information cards, news articles, and better-organized search results