

Introduction to Large Language Models

Instructor

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The Evolution of NLP

1950 - 1980
Symbolic NLP

1980 - 2000
Statistical NLP

2000-2017
Deep Learning

2017 Onwards
Transformers and evolution



What are Large Language Models?

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Large Language Model

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Large

Language Model

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Large

Language Model

Language Models assign probabilities to a group of words in a sentence.

Language Models



Sentence 1: Life is good.



Sentence 2: Good life is.



Sentence 3: Is good life.



Example

I am going to school

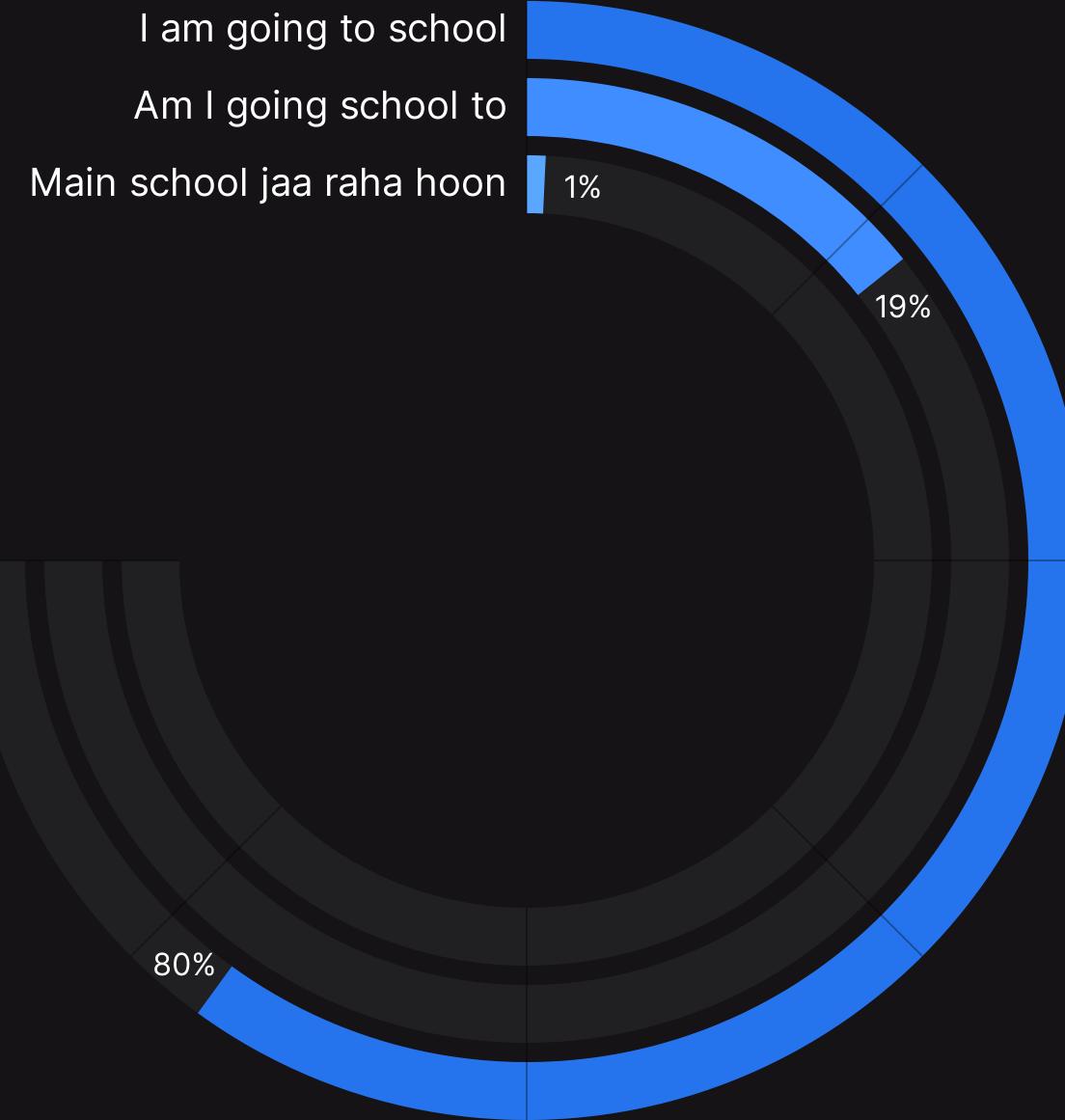
Am I going school to?

Main school jaa raha hoon

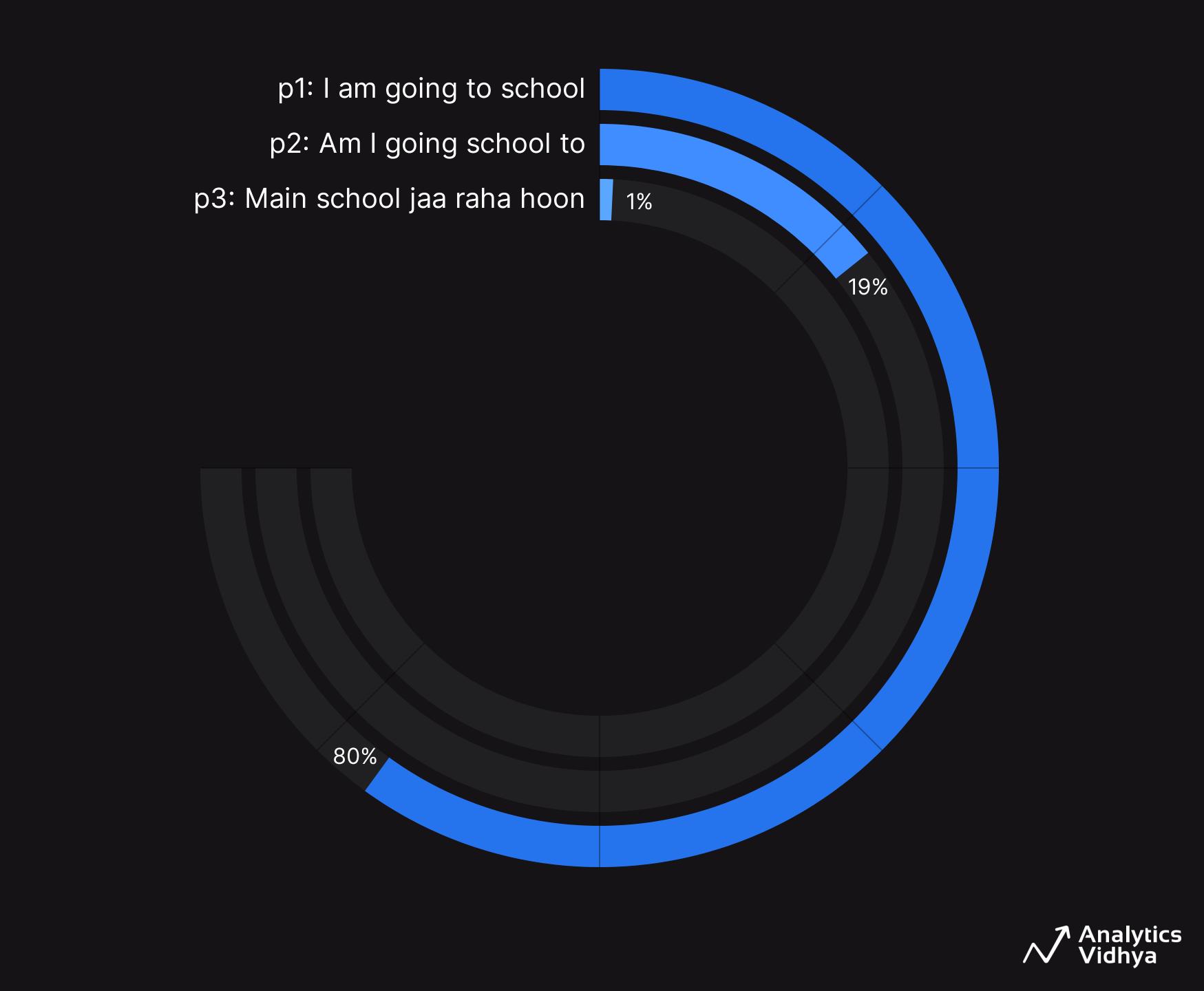
Which sentence is most likely to occur?

Example

I am going to school



Language models
assign probabilities
to sequences of
words that are likely
to occur.



Examples of Language Models

N-gram Language Models

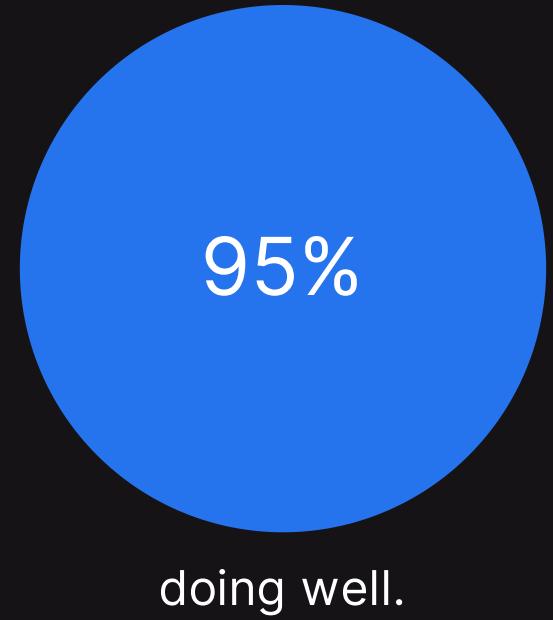
Neural Language Models



Language models
predict the most
probable word that
is likely to follow the
preceding words.

Example: I hope you are _____

5%
at the airport.



What is 'Large' in Large Language Models?

Thank You
