

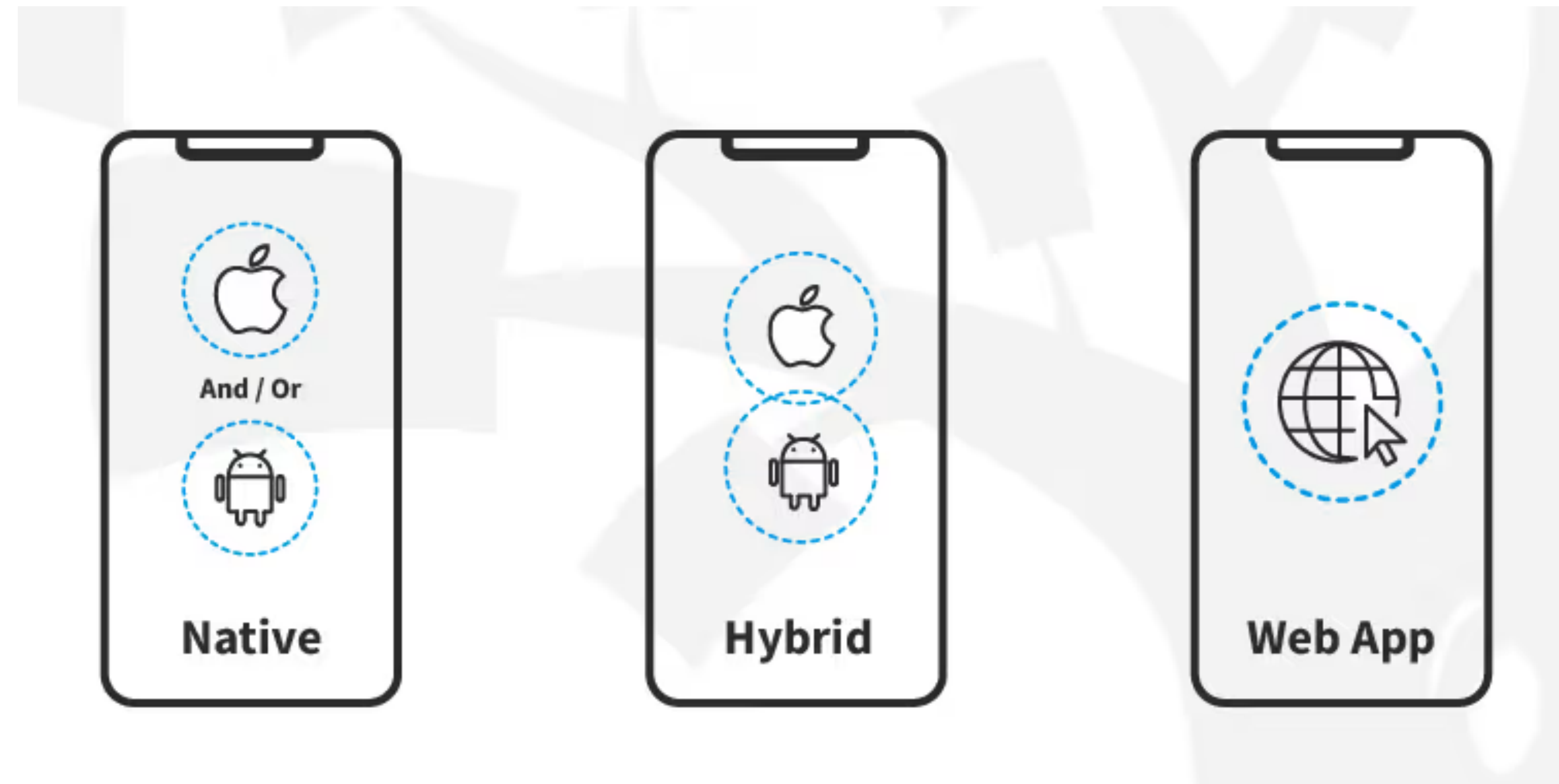


# Ionic Vue

**COMP7270 Web and Mobile Programming  
& COMP7980 Dynamic Web and Mobile Programming**

**26th March 2025, Dr Shichao MA**

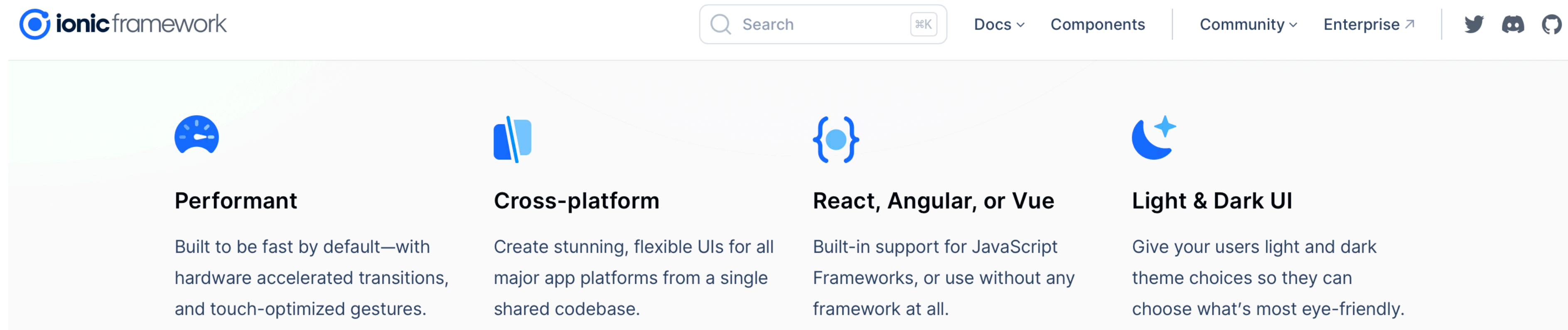
# Native Apps and Web Apps





# Ionic Framework

- Could be exported to native codes
- Supports **cross-platform development**
- Works with modern frontend frameworks like Vue



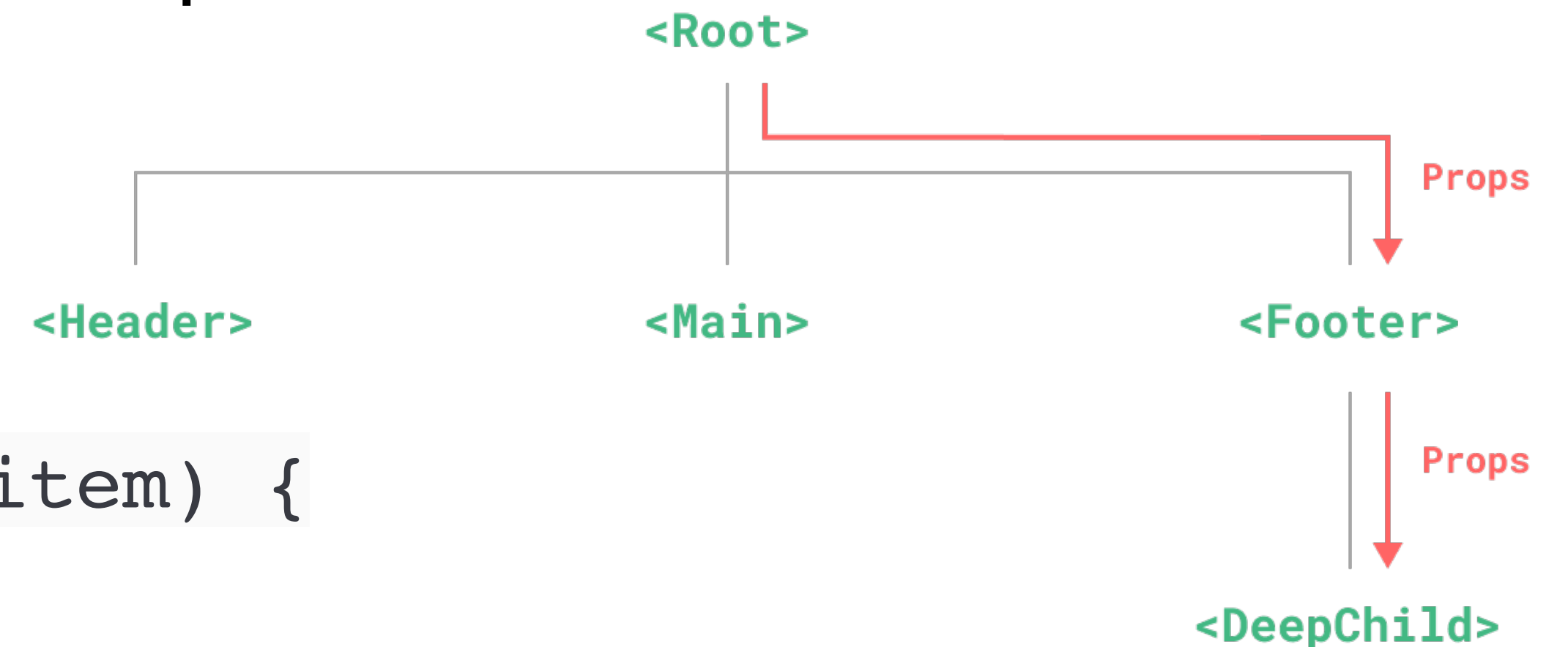


# Props

- Usually, when we need to pass data from the parent to a child component, we use **Props**.
- Here, we provide **Props** (properties) via the template.

```
<ExploreContainer name="Ladies" />
```

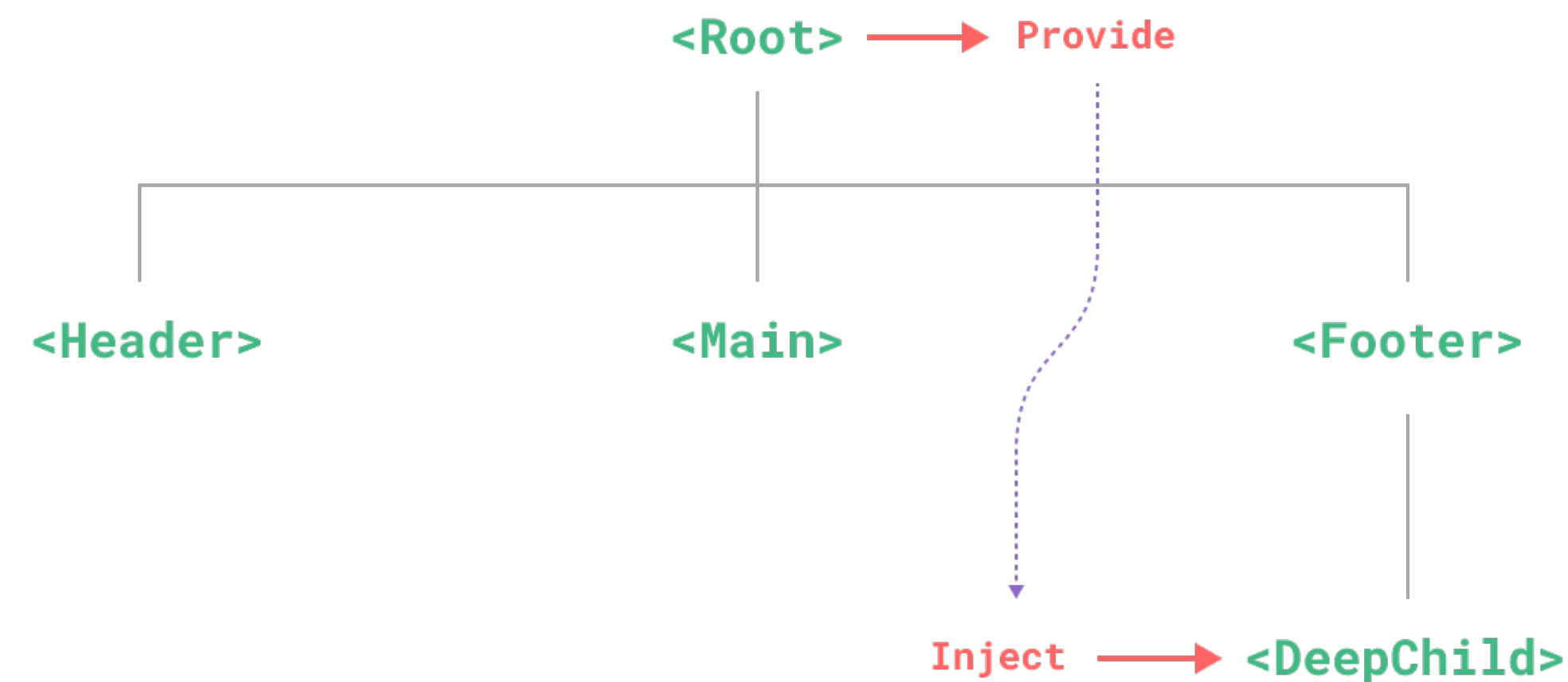
```
tems.value = fashionItems.filter(function (item) {  
    return item.department == props.name;  
})
```



# Provide / Inject

## For Prop Drilling

- A parent component can serve as a dependency provider for all its descendants.
- Any component in the descendant tree, regardless of how deep it is, can **inject** dependencies **provided** by components up in its parent chain.





# Provide / Inject

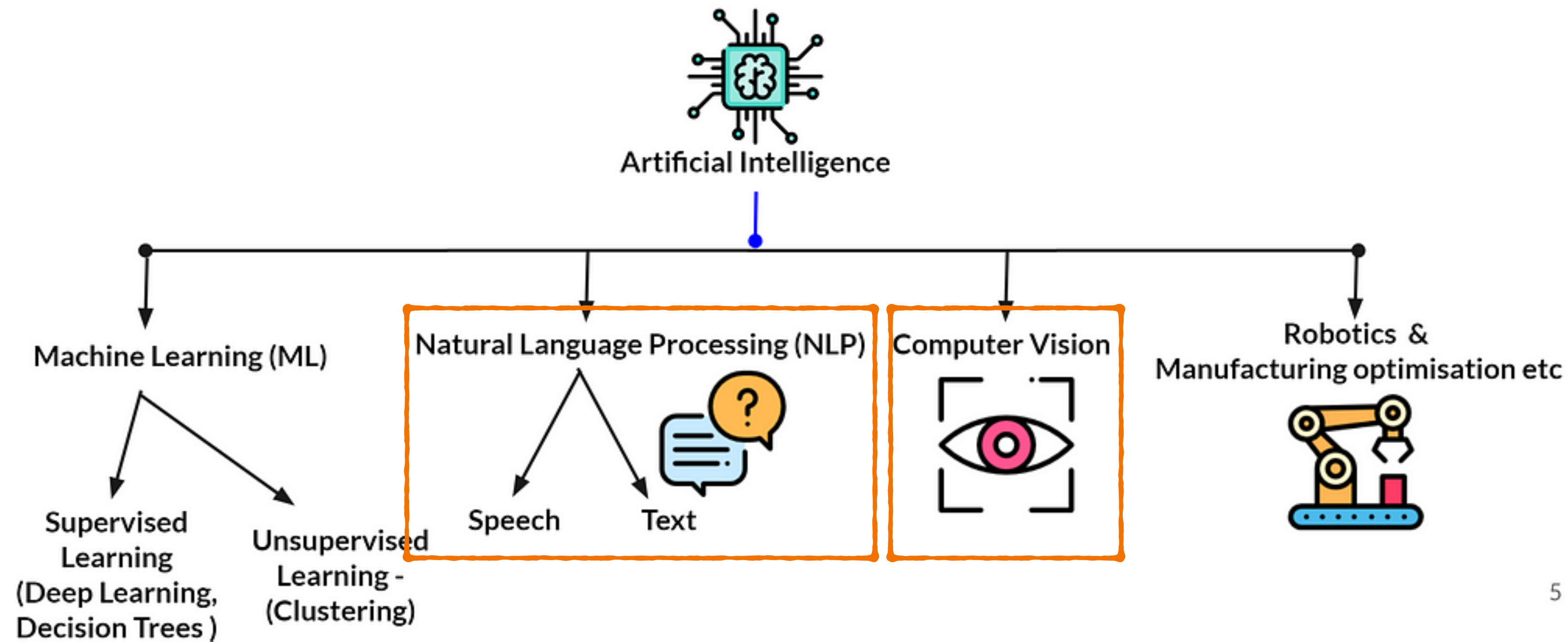
- Provided an empty cart in App.vue
- **Inject** the cart in Item detail page.

```
provide('cart', ref([]))
```

```
const cartItems = ref(inject('cart').value);
```



# Popular AI Tasks



5



# Sentiment Analysis

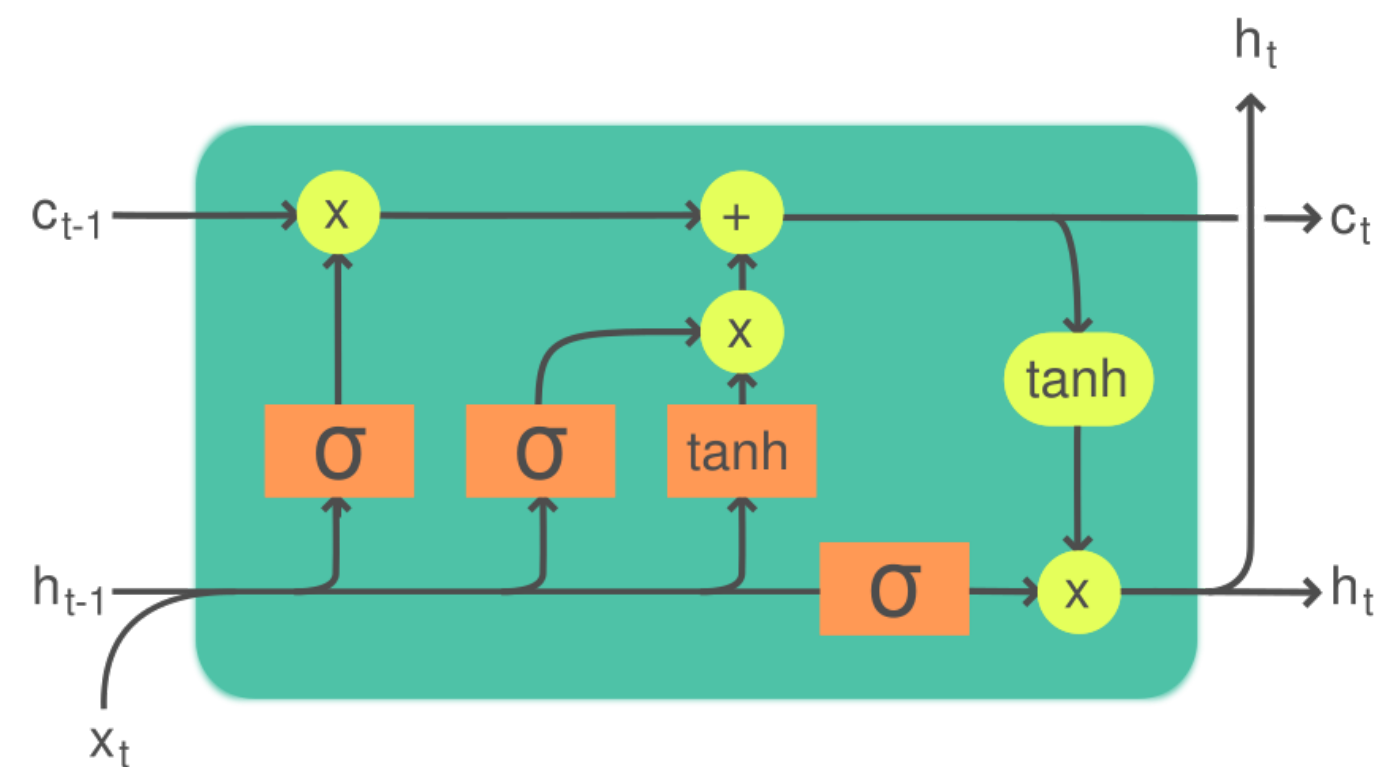
## A Topic in NLP

- Sentiment analysis, also known as opinion mining, is a computational technique that aims to identify and understand the sentiment or subjective tone conveyed in a given piece of text, such as reviews, social media posts, customer feedback, or news articles.
- It utilizes natural language processing (NLP) and machine learning techniques to analyze and **classify the sentiment expressed in the text as positive, negative, or neutral.**



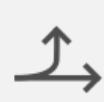



# Sentiment Analysis

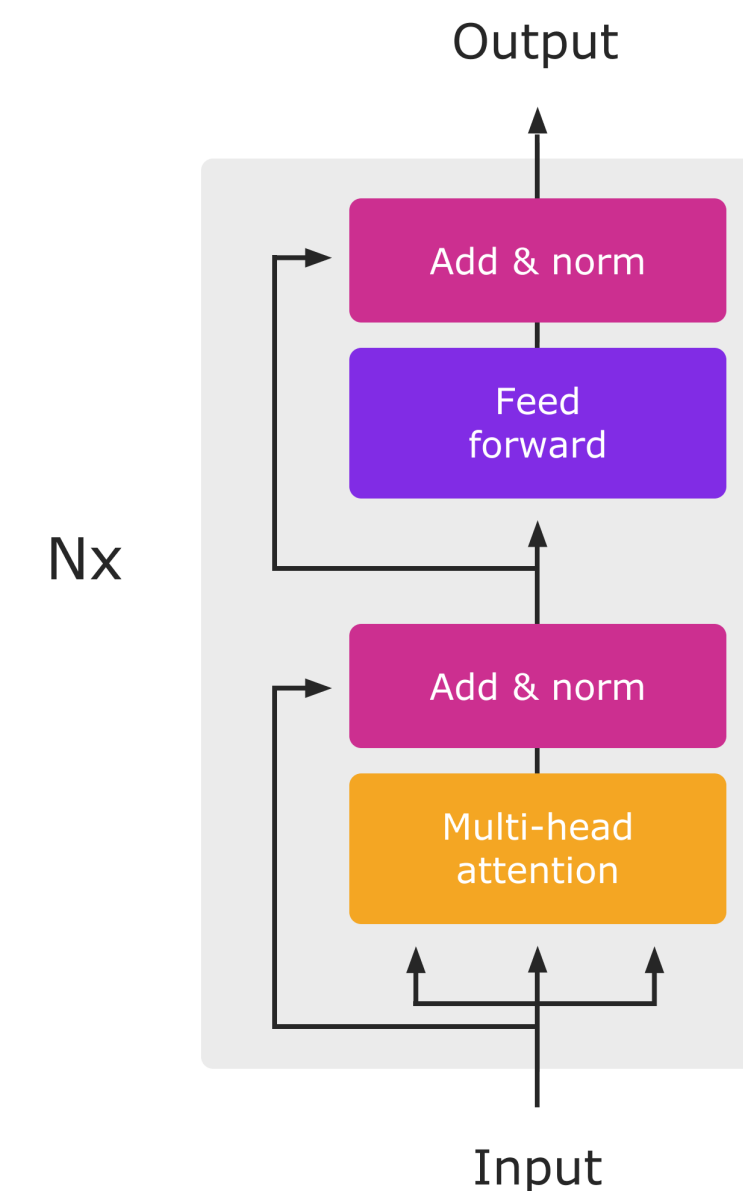
- Scores in sentiment analysis are numerical values or probabilities assigned to indicate the sentiment polarity of the text. These scores provide a quantifiable measure of the intensity or strength of the sentiment conveyed in the text.



Legend:

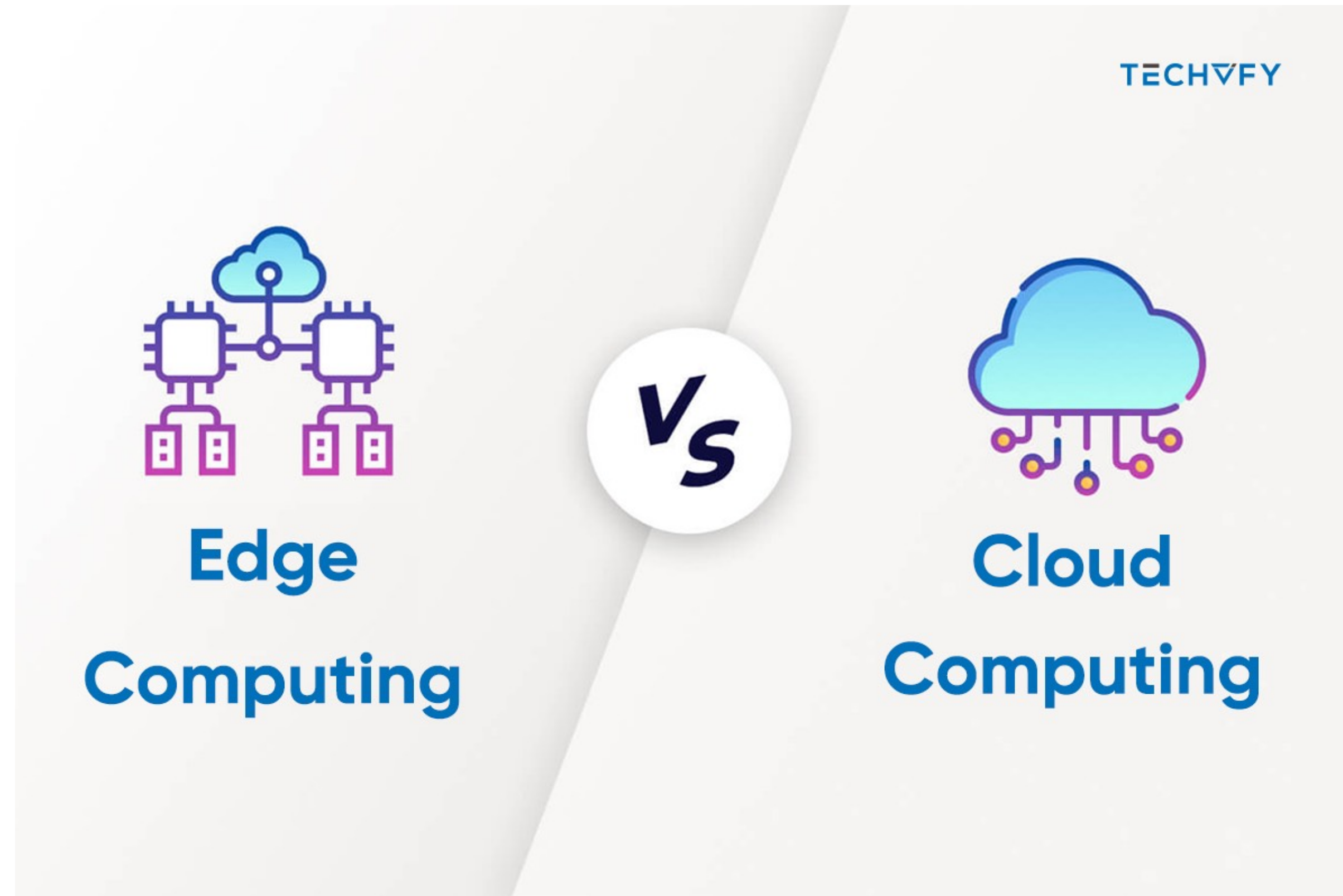
Layer	Componentwise	Copy	Concatenate
			

LSTM



Transformer encoder

# Add Some AI to Your App



Similarly, there are Cloud-based and Edge-based ways to run AI models.

# Tensorflow.js and In-device Intelligence

