## Conversational & Contextual Observability

?

**Bishwajeet Paul** 

Mani Nagaraj

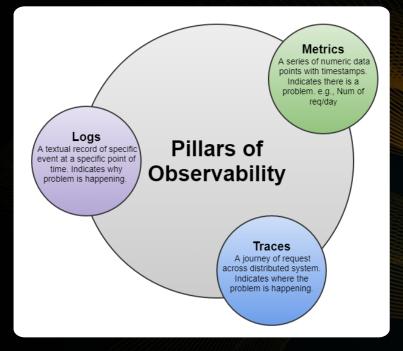
Ankur Aggarwal



### CHASE 🗘

### JP Morgan Chase & Co.

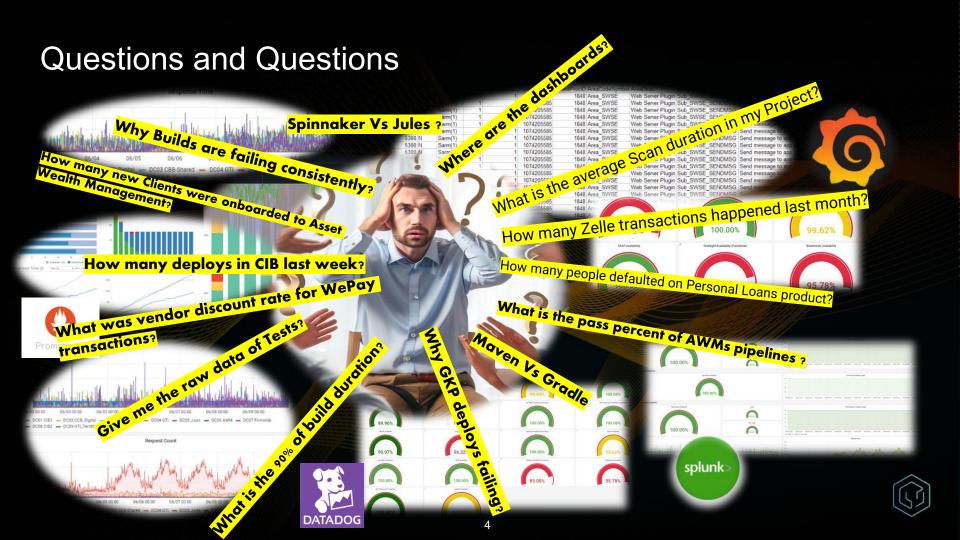
We are part of Engineer's Platform & Integrated Experience (EPiX). Primarily focused on the Observability of every stage of the Software Development Lifecycle (SDLC). Our goal is to help engineers detect issues early and proactively with automated troubleshooting recommendations.



# Observability

- Collect, correlate, aggregate, and analyze telemetry in your network, infrastructure, and applications.
- These insights help you detect, investigate, and remediate problems faster.
- Artificial intelligence and machine learning can help proactively react, predict, and prevent problems.
- Allows analysts to explain the unexpected and address the underlying causes more quickly and more accurately.



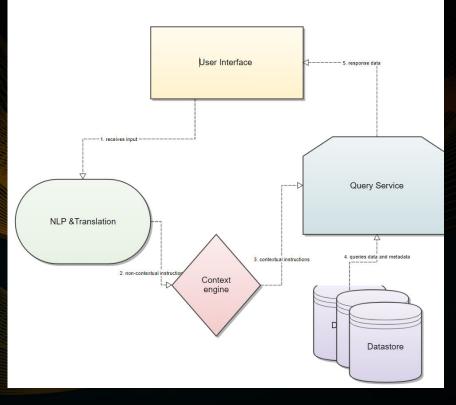


# How to simplify Self Service of Contextual and Meaningful data from JET Observability ?

- Various areas of Interest: Platform performance, application stability, CICD insights, recommendations etc.
- ✓ Diverse requirements : logs, metrics, traces, trends, stats, raw data and more
- Multiple Personas: developer, project and product managers, CIOs-1, CIOs, Customer Success and more
- Dashboards everywhere for everything
- Limited human resources
- Increase market value
  - time savings
  - cost reduction

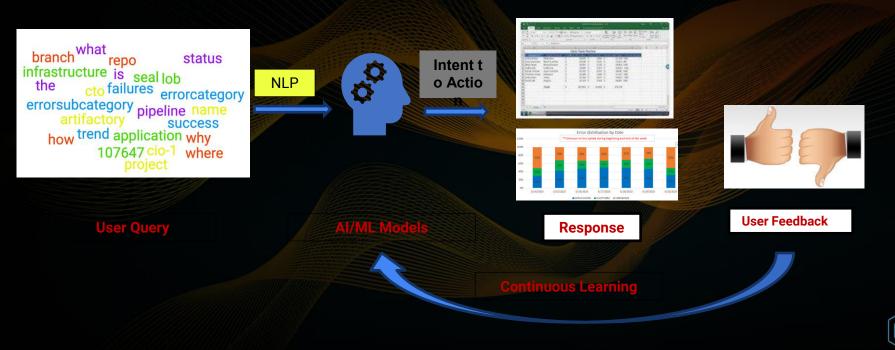


# System Design

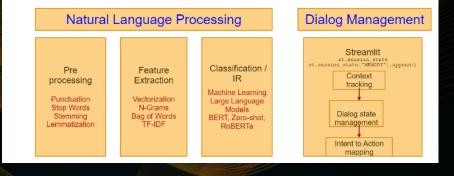




### **Conversational learning system**



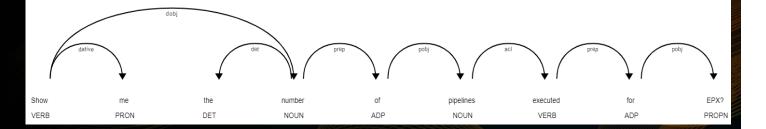
## NLP components

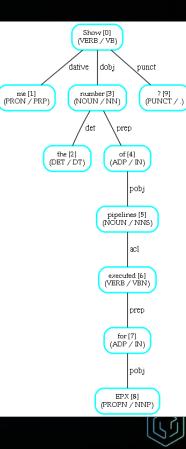




### Preprocessing

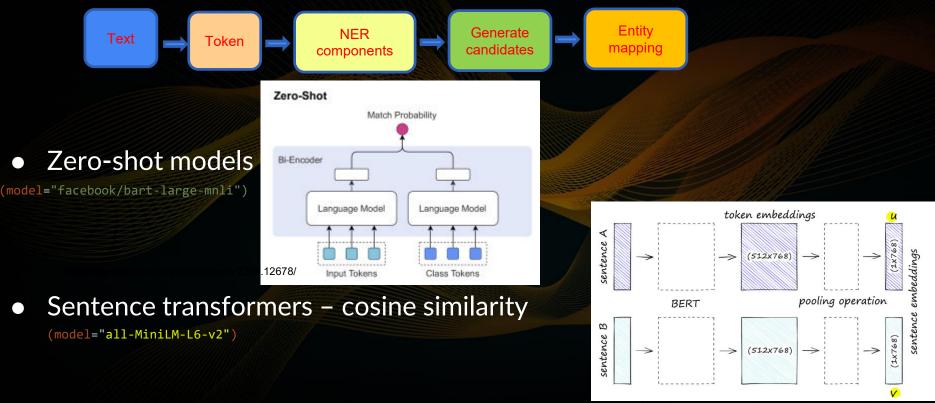
- Question: Show me the number of pipelines executed for EPX?
- Keywords = ['Show', 'number', 'pipelines', 'executed', 'LOB']



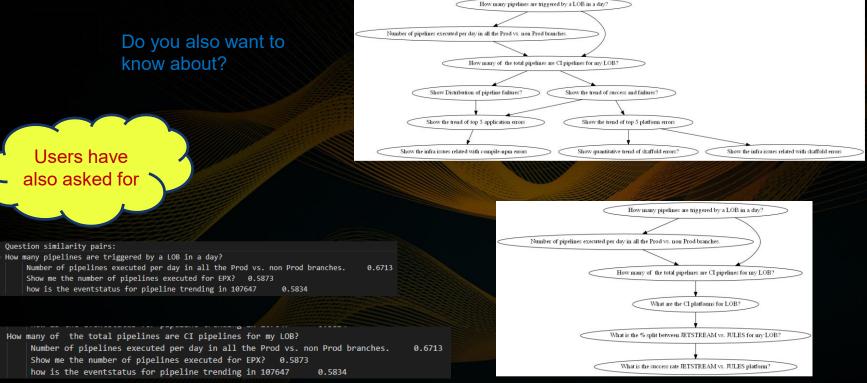


### Large Language models

• Custom Entity linking (EL model)



#### Suggested Questions based on similarity





#### Demo

🗢 app - Streamlit 🛛 🗙 🕂	S.	~	-	o ×
$\leftrightarrow$ $\rightarrow$ C $\triangle$ (i) localhost:8501		Q \$	* 0	<b>±</b> =
×				≡
Welcome to Conversational and Contextual Observability			G	
	Type your question here.			



How may I help you?

Made with Streamlit



