

DS C3S NLP Revision

18/ Dec/2022

upGrad | C3S - NLP - Revision Session A... 12:12 PM

Diff comp of MLops Stack.
Tools used →
Encoders
You started Presenting
Decoders
Att. mech.
Transformers

DARSHAN is talking

Mute Start Video Raised Hands Presenting

Public Private Classroom

AM: Aparna Mehrotra are others able to see? 12:12 PM

AM: Aparna Mehrotra tried already 12:12 PM

SR: Sitapati Rao yes able to see 12:12 PM

Quiz > Poll > Welcome to th →

Enter your message here... 0 / 1000 characters

MLops - to design, develop & maintain ML application.

49% → exp. challenges

1. Design - Thinking Process
2. ML Canvas

Machine Learning Canvas

Product:

Authors:

Date:

Version:

Background Describe the customer's goals, pains and gains.	Solution Define the solution, including features, integration, constraints and what's out-of-scope.	Data Identify the training and production data sources, as well as the labeling process and decisions.	Modeling List the iterative approach to model our task.	Feedback Outline sources of feedback from our system to use for iteration.
Value proposition Propose the product with the value it creates and the pains it alleviates.				
		Metrics Prioritize key metrics that reflect the objectives.		Project Define the required team members, deliverables and projected timelines.
	Feasibility Discuss the feasibility of the solution and if we have the required resources.		Experimentation Devise experimentation strategies to employ before releases.	
Objectives Breakdown the product into key objectives that need to be delivered.		Evaluation Design offline and online evaluation criteria.		

Machine learning canvas from [Made With ML](#), by [Gowd Mohandas](#)
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Canvas:

1. How often models expected to be retrained?
2. Why does this happen? (locally / on cloud)
3. What is the formalized work flow for ML pipeline? (Data Prep → model Training → model eval & val). What tech stack is used?
4. Is distributed model training reqd?
5. Wkflow for CI pipeline? Tools.
6. What are non-functional reqs for ML model?
 off, Robustness, Interpretability, etc.? Test? CI/CD Wkflow?

Model Registry & Model Versioning.

Model Update \rightarrow Model Decay.

1. Model Reg. is it mandatory if u hv multiple models in prod? Need to track them all.
2. Why should new models be stored & tracked?
3. What versioning strds r used?

Model Deployment

Continuous Deployment

1. What is delivery format for model?
2. Expected time for change?
3. Target env to serve predictions?
4. Model release policy.
5. Deployment Strategy

Prediction Serving - Model as a Servio.

1. What is serving mode? (batch / online)
2. Is Distributed serving reqd?
3. Is multimodel prediction serving reqd?
4. What fall back mto is to be followed?
5. TPU?
6. Expected Target vol. of predictions per month / hrs?

ML Model, Data & Sysm. Monitoring

1. Is this optional or mandatory?
2. What ML metrics r collected?
3. How domain specific metrics r collected?
4. How model decay is detected?
perf.
5. How is alerting strategy defn?
6. Retraining a model.

X