## Broad Functionality: Model Registry and Centralized Monitoring Dashboard

## **Principle:** Governance

<u>Understanding Functionality</u>: MLflow should automatically keep a track of versions for registered models when updated for different stages i.e., staging and production. Should also log metadata of the models like user id, project id, environment, last modified date, and environment. It should also maintain the aforementioned details of different versions of the logically same decision-making models. Since at times, a model might reach production with an issue, potentially non-trivial, in such a case, the production model should be rolled back to the prior version. Until a new version is ready.

## Does MLflow supports the functionality directly: Yes

- Explanation: An MLflow Model that has been registered with the Model Registry. The
  registered model has a unique name, versions, model lineage, user id, request details,
  comments & tags with the request and description if maintained while raising the request.
  MLflow also provides a centralized dashboard for all the models to compare different
  parameters and metrics among different versions.
- Extra remark: An MLflow Model logged from an experiment or that has been run with one of the model flavor's MLflow.<model-flavor>.log\_model methods, you have registered the model with the Model Registry now. A registered model will always have a unique name, version, and other metadata. The model version of the model keeps on incrementing by 1 on redeploying the model with the same name. A Model version can be assigned to one or more stages of the project, could be None, Archived, Staging, or Production. Stage of the model can be transitioned or can be requested for transition, like from staging to production.

Does MLflow supports the functionality indirectly: NA

## <u>Screenshots for MLflow supports the functionality directly or indirectly:</u>



