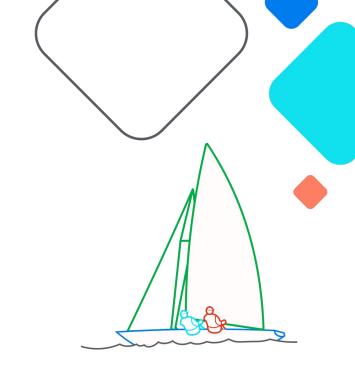
DAG Authoring without PhD

Filip Knapik, Rafał Biegacz



₹Airflow Summit

Let's flow together

September 19-21, 2023, Toronto, Canada

About us



Filip Knapik

Group Product Manager Cloud Composer

Working with Airflow for ~4 years Ex-Product Manager for Google Workflows



Rafal Biegacz

Senior Eng Manager Cloud Composer

Working with Airflow for ~4 years Member of Airflow Summit Organizing Team



Contacting Us / Where to Find Us

During the conference **visit us at Google Booth** to learn more about:

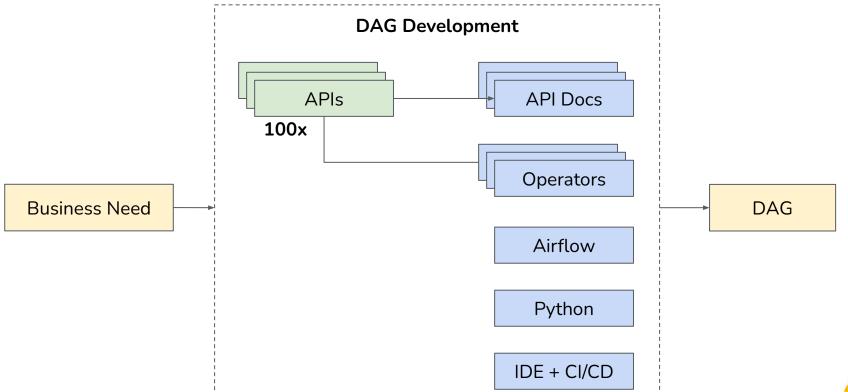
- Serverless Composer
- Disaster Recovery & Data Lineage support in Composer
- Support for Public Sector and Assured Workloads

Fill in the form: bit.ly/airflow-summit-2023-composer if you would like to meet, request more information or you are interested in getting a voucher for GCP credits.





DAG Authoring is non-trivial





Can it be any easier?

LLM-based Generative AI model acting as a translation layer

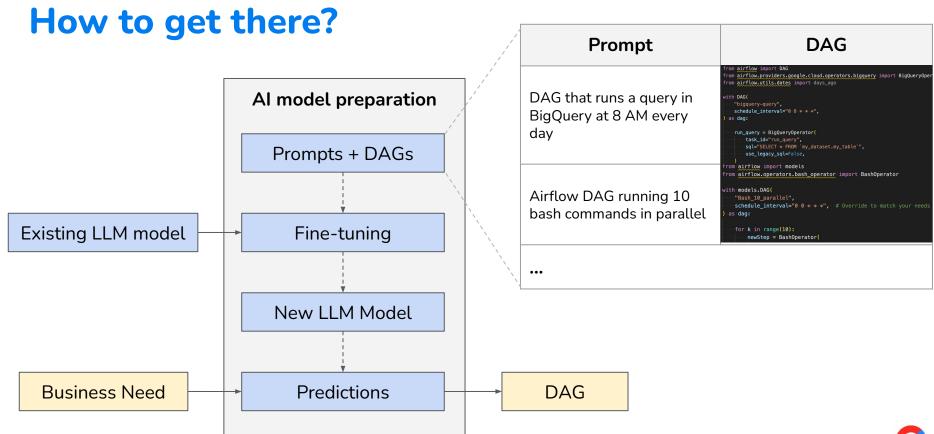
```
Business Need

I need a DAG that ...

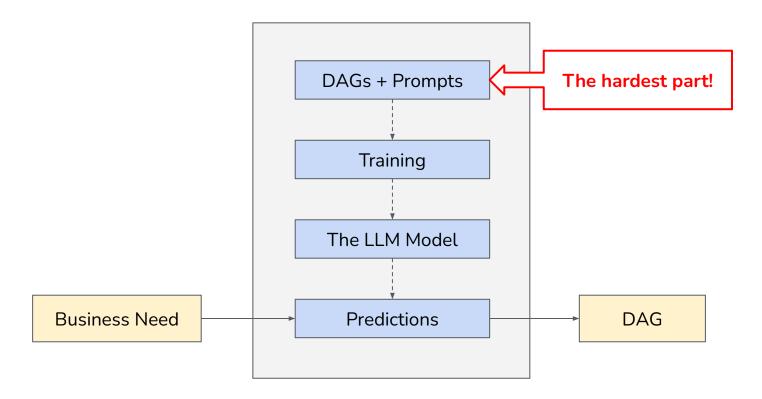
Al – LLM

| from airflow_inport BAG | from airflow_incorport days_ago | with DAG |
```





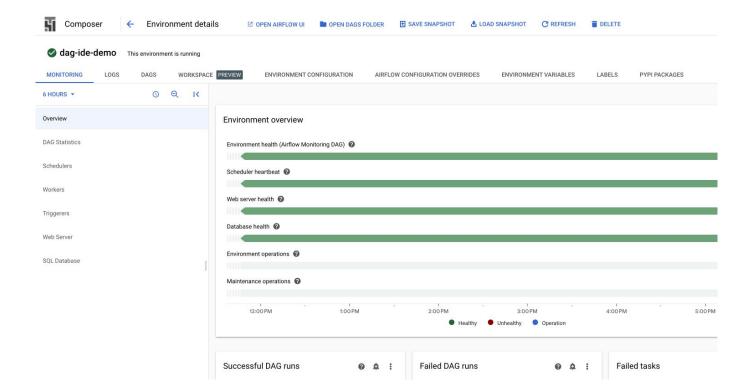
The challenge





Where we are

Prompt: Write Airflow DAG that that runs BigQuery query using BigQueryInsertJobOperator to get number of GitHub commits in May 2022. Please, use public dataset for github data published by Google Cloud Platform





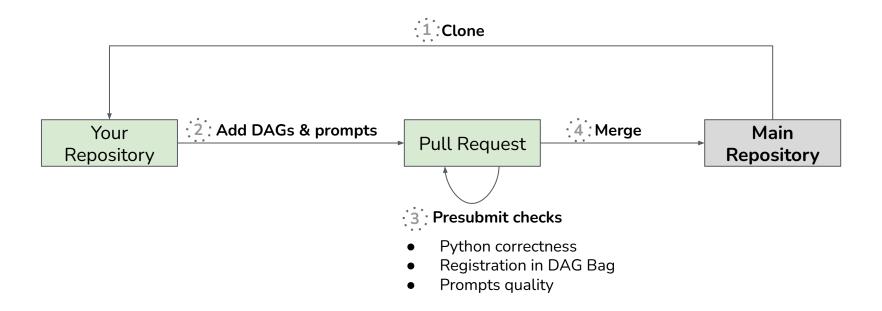
Our proposal

Establish an open source Airflow DAGs + Prompts repository to enable LLM models creation & experimentation by the community

- Google establishes open source repository
- Google donates its Airflow DAGs training data
- Community joins in and contributes with its own DAGs examples
- Community can build its own DAG code generation models and tools



Contribution process



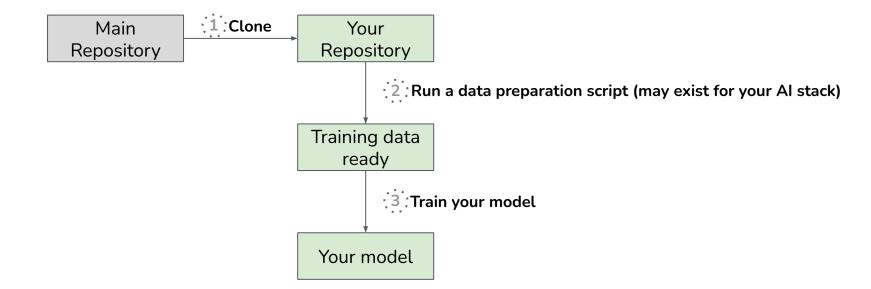


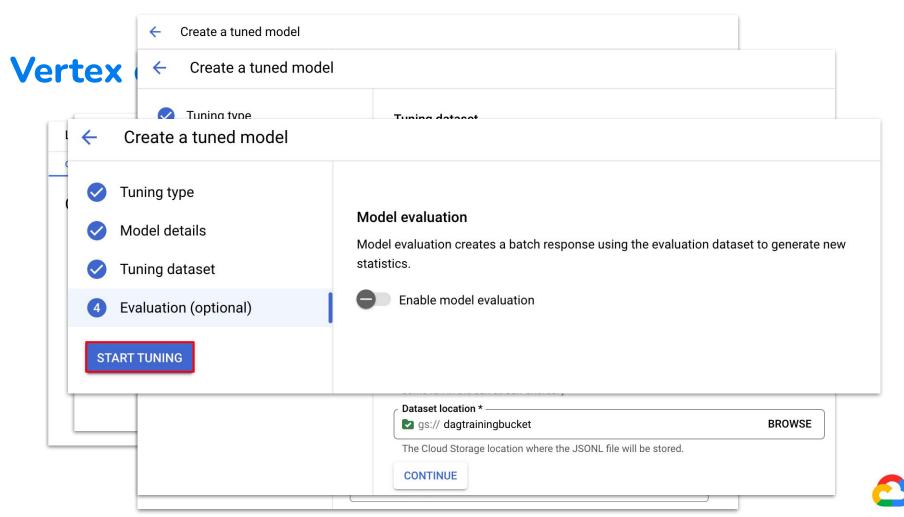
Contribution guidelines

- The more (DAG, prompt) pairs are contributed, the better
- Ensure that DAGs and prompts are:
 - Free of any PII references
 - Following latest Airflow development practices
 - Using particular versions of python modules and provider packages
 - As diverse as possible
- Use examples that you can contribute under Apache 2.0 license



How to use it?





Next Steps

- 1. Composer team will send a call for action email on Airflow Dev list
- 2. All community members are encouraged to join us!





Questions?

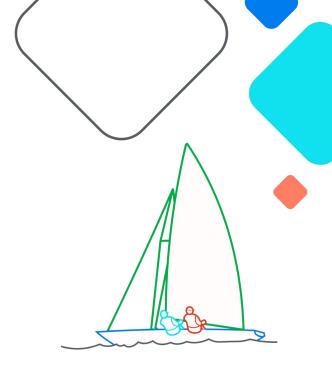
Optionally share some contact info like email, blog or social media handles

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