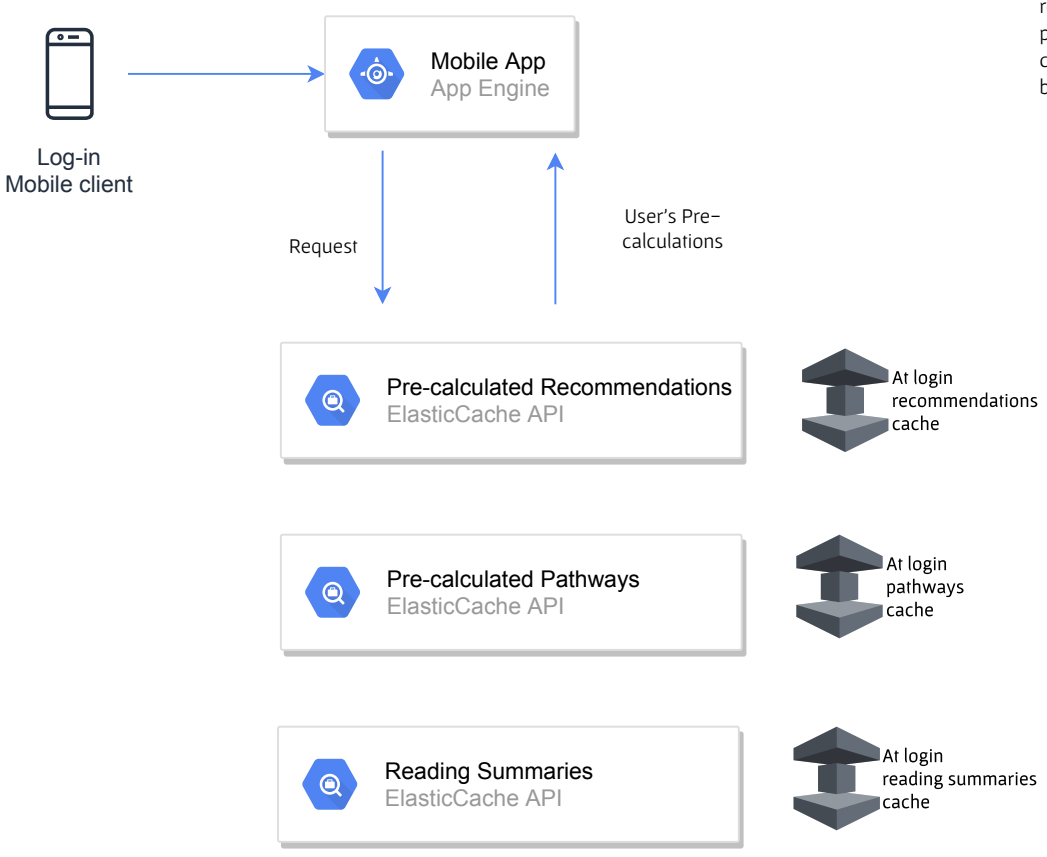
Models Services	Developing Models	Core Analytics & Core Features Engieering	Ecosystems
At Login	recommendation model development	daily executions	pipeline ecosystem of tools
in-context recommendations	pathways determination & pathway assignations models		graphs & graphing engines
real-time personalised search	real-time personalised search model development		
	reading profiles clusters		

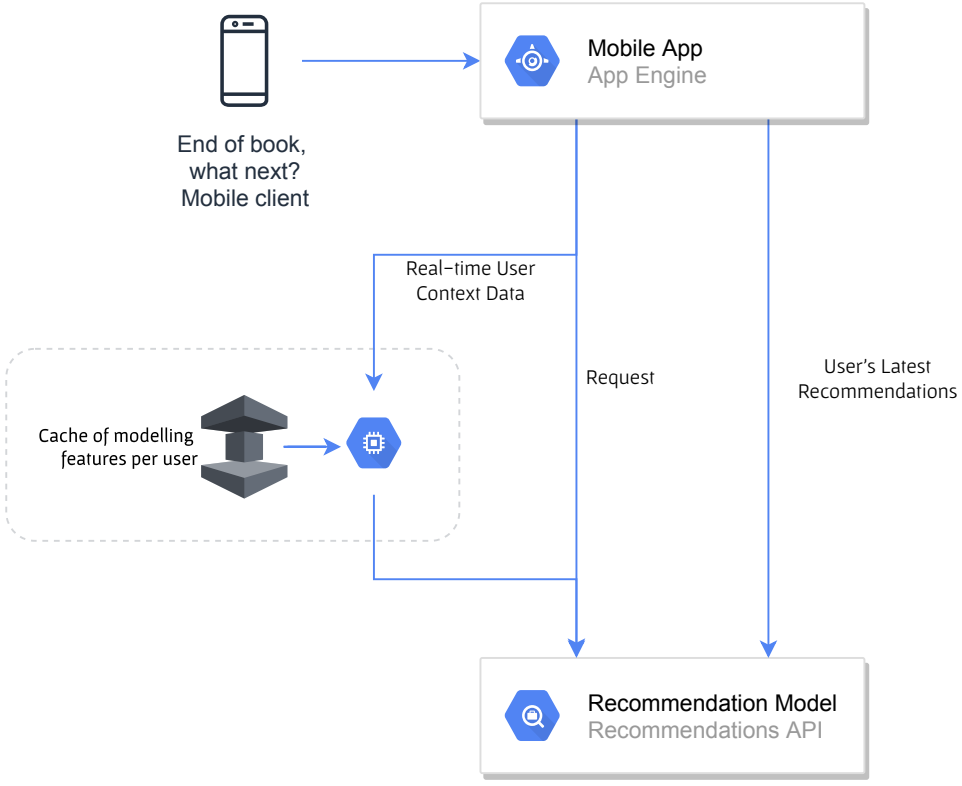
logging-in

After logging-in one of the options offered is a screen section of pre-determined recommendations. The recommendations are from the latest nightly batch predictions of recommendations per user. The same concept applies to pathways, and a user's summary of book reading thus far.

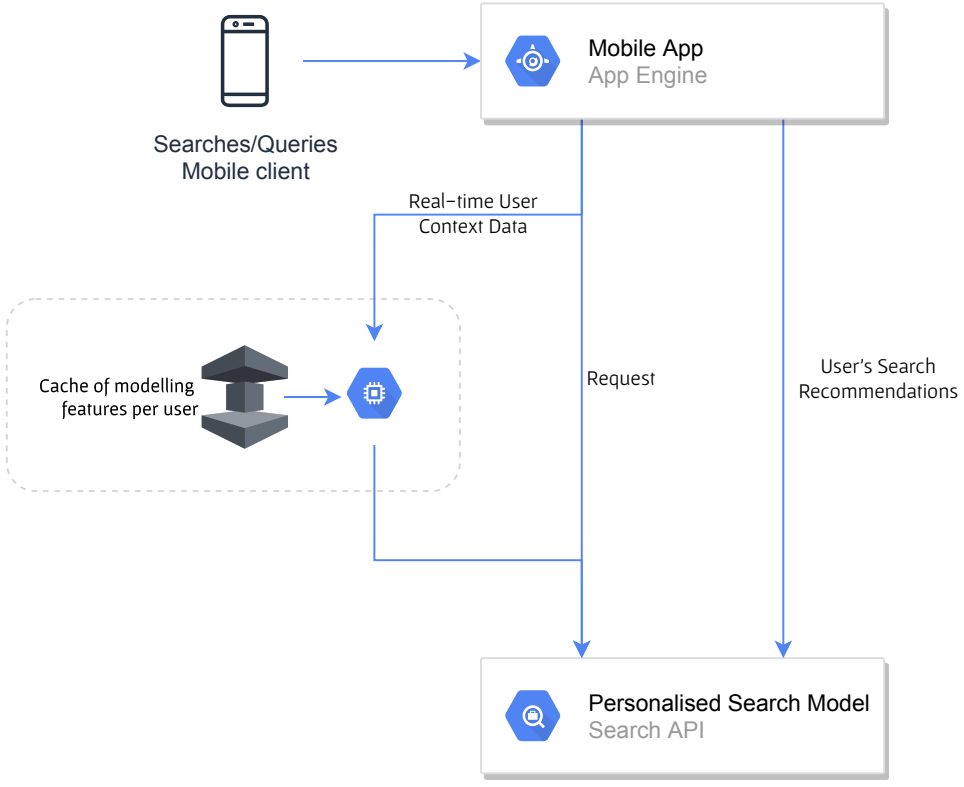


in-context recommendations

A user has just finished reading a book. Or, a user has decided to exit a book that was being read, but hasn't been finished. (If time and cost permit, the pathways option could be tried within this project.)

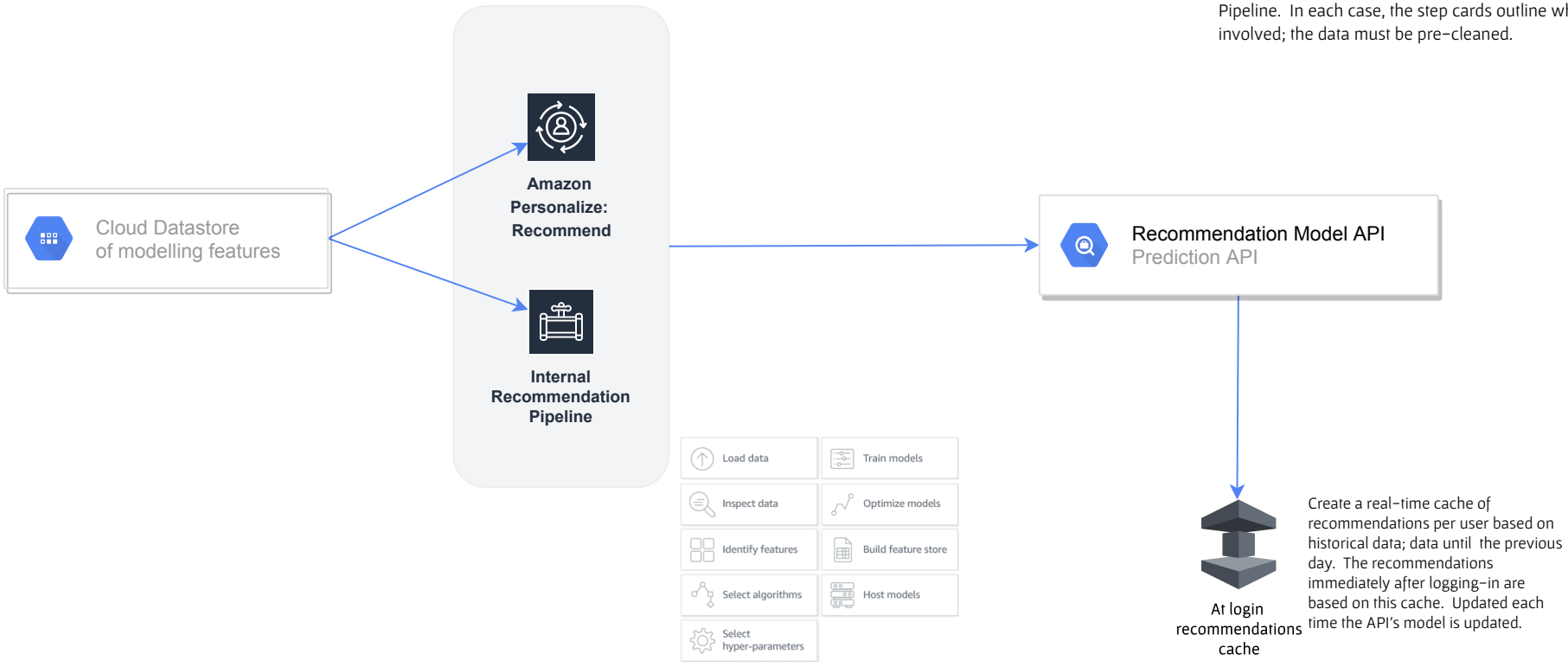


real-time personalised search



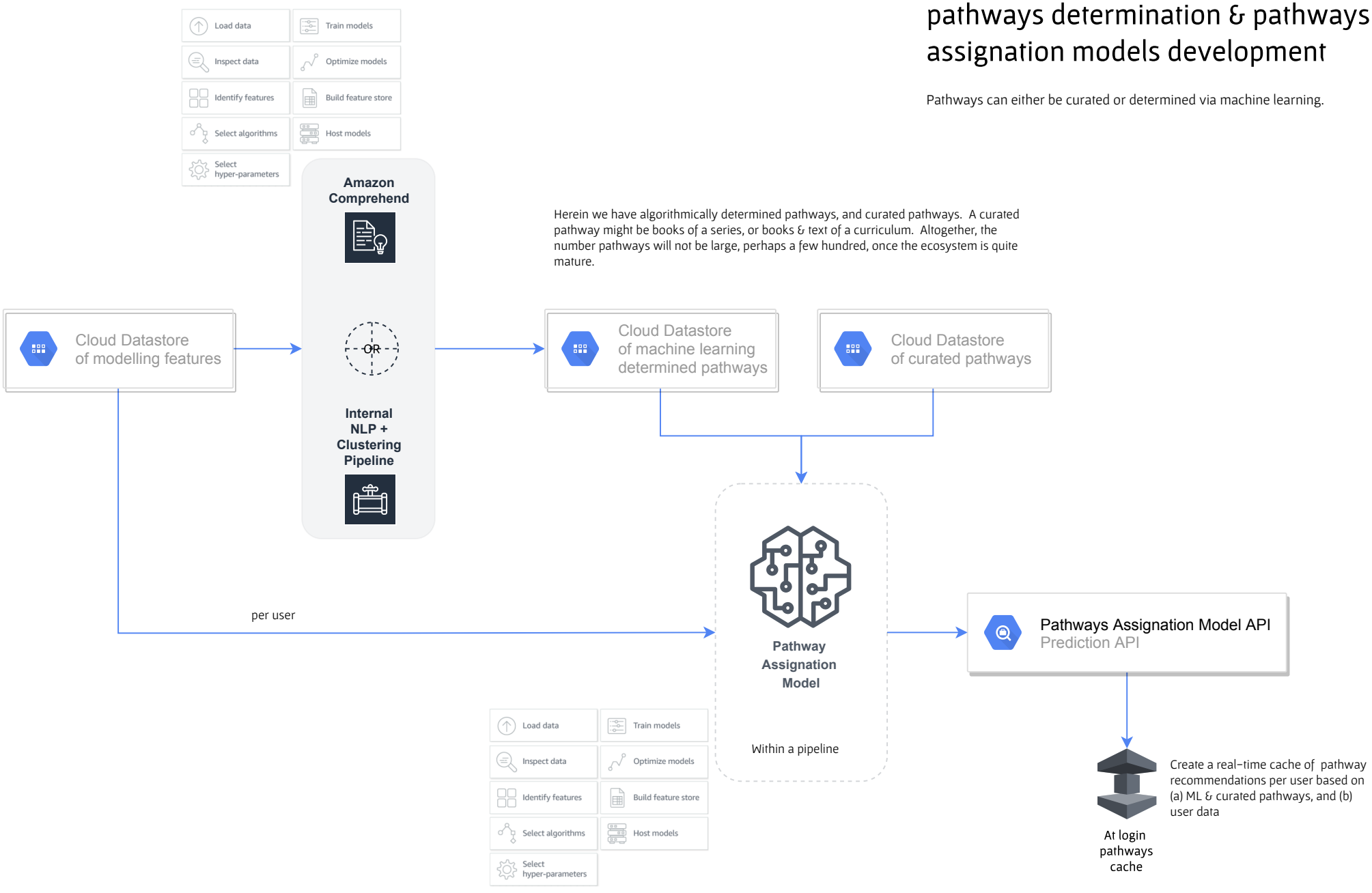
recommendation model development

A continuously developed model based on either (a) Amazon Personalize, or (b) an Internal Recommendation Pipeline. In each case, the step cards outline what is involved; the data must be pre-cleaned.



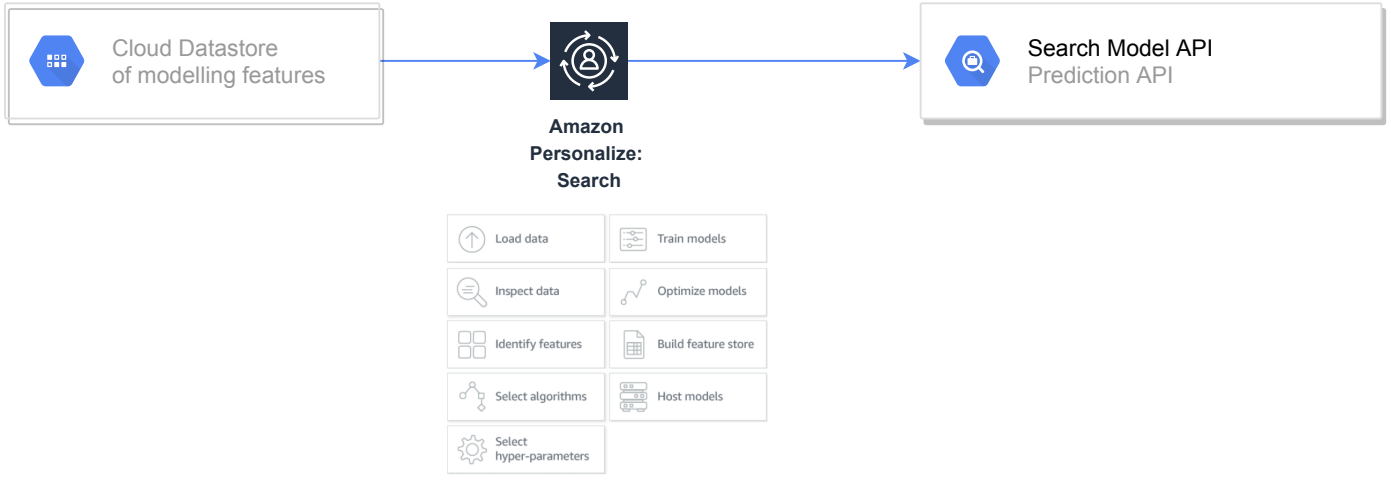
pathways determination & pathways assignation models development

Pathways can either be curated or determined via machine learning.



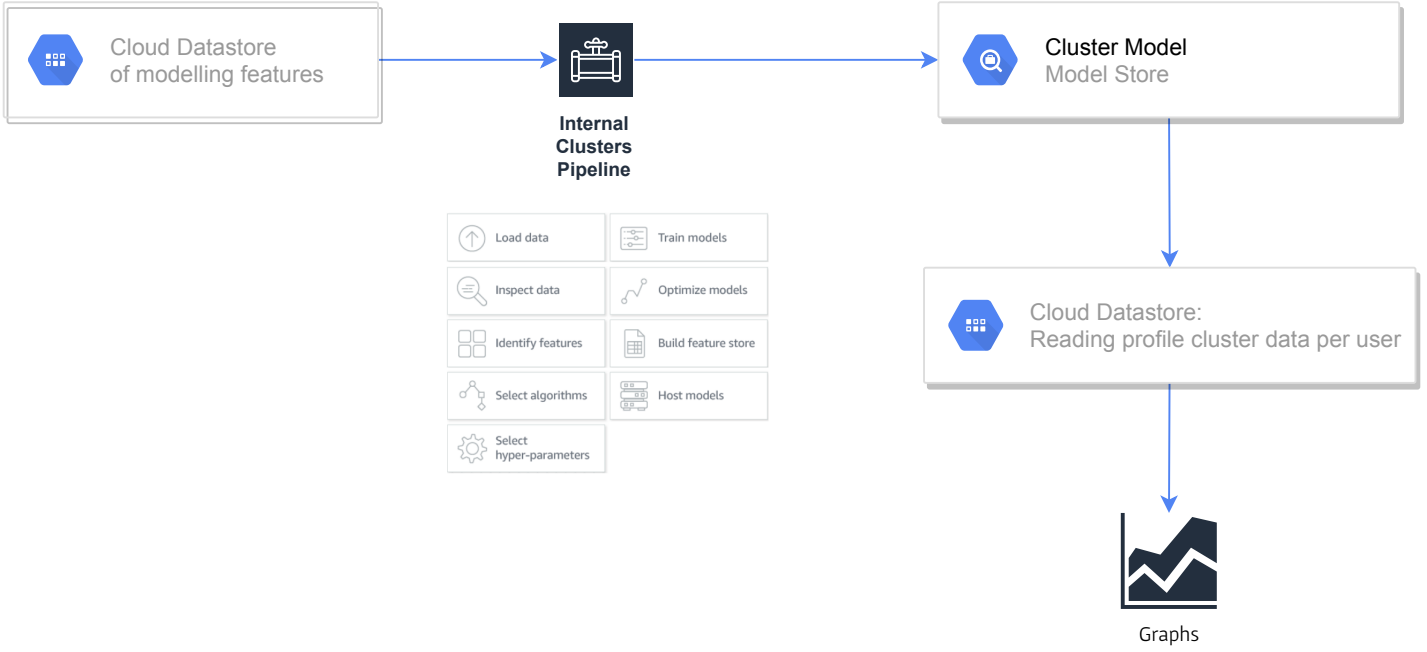
real-time personalised search model development

A continuously developed model based on Amazon Personalize: Search. In each case, the step cards outline what is involved; the data must be pre-cleaned.



reading profiles clusters

Builds on the reading profiles experiment conducted for Anasoma & Kid's Android. The experiments developed reading profiles clusters based on reading behaviour – demographics data excluded.

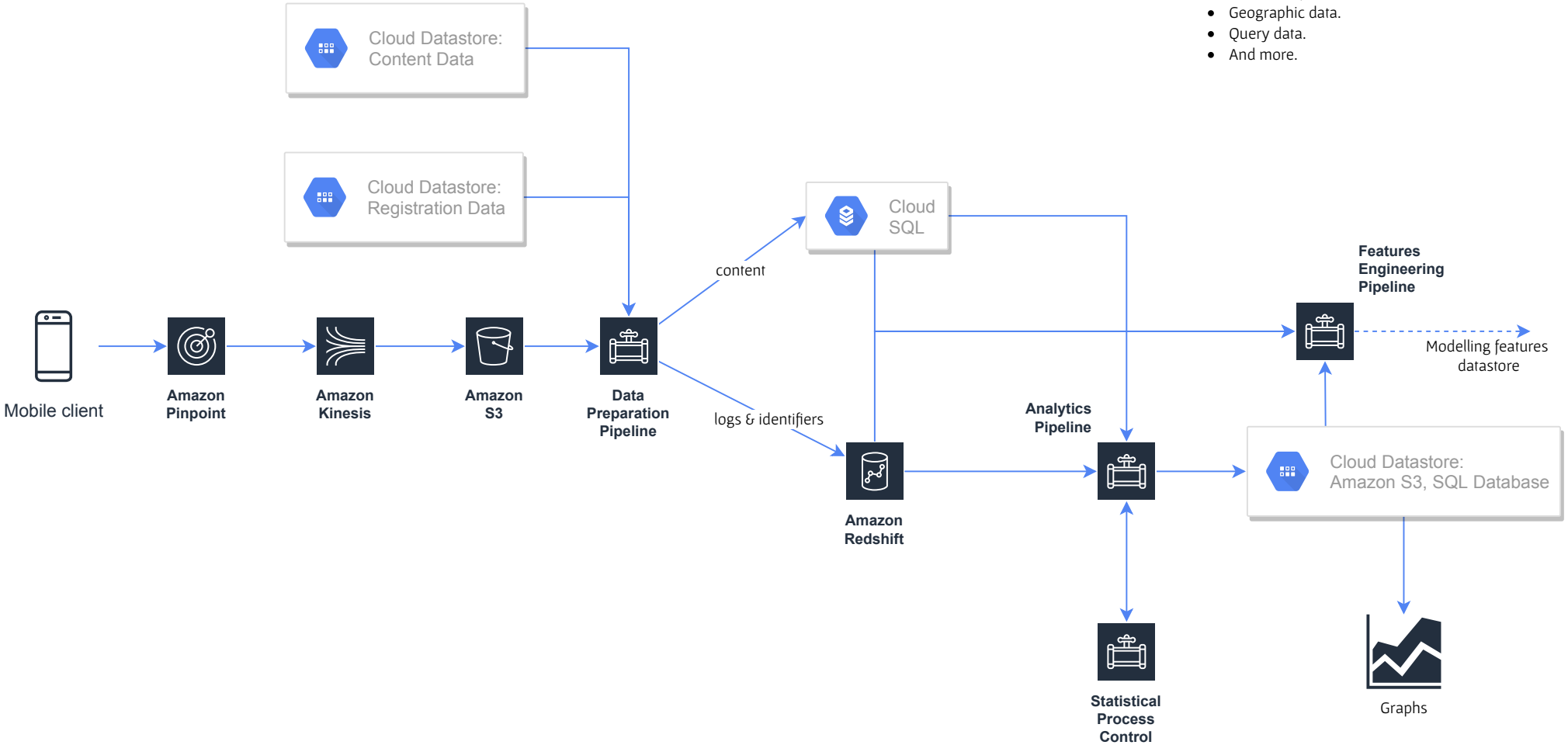


daily executions

Including (a) data preparation for modelling, analysis, and analytics, (b) analytics, (c) statistical process control, (d) features engineering, etc.

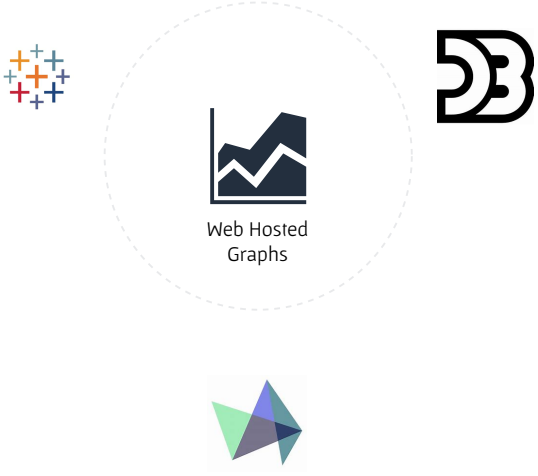
The modelling features data store is a combination of

- Derived features, e.g., reading measures and behaviour features.
- Geographic data.
- Query data.
- And more.



pipeline ecosystem

Pipelines are fed by, and use, a variety of resources.



graphs & graphing engines

For analytics and statistical process control graphs.

The best engine for a graph type will be used, but all graphs will feed into the same web pages ecosystem; S3 hosted.