



Maxime Beauchemin

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creator of Apache Airflow and Apache Superset - founder at Preset

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- preset-io
- San Mateo, CA
- @ mistercrunch.blogspot.com

- Passionate about building data tools!
- Started Apache Airflow at Airbnb in 2014
- Started Apache Superset at Airbnb in 2015
- Started Preset The Apache Superset company in 2019







Organizations





Some context

Qualified?

- Avid Al user since GPT 3.5
- Full stack data practitioner through multiple software eras
- Been building data tools for 2 decades
- Built extensive/advanced RAG-type features
- Early adopter of MCP and its promises
- Learned a lot through building text-to-SQL @ Preset

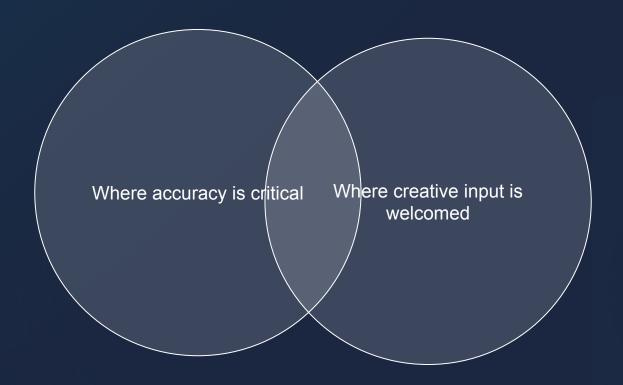
Companion blog post @ preset.io



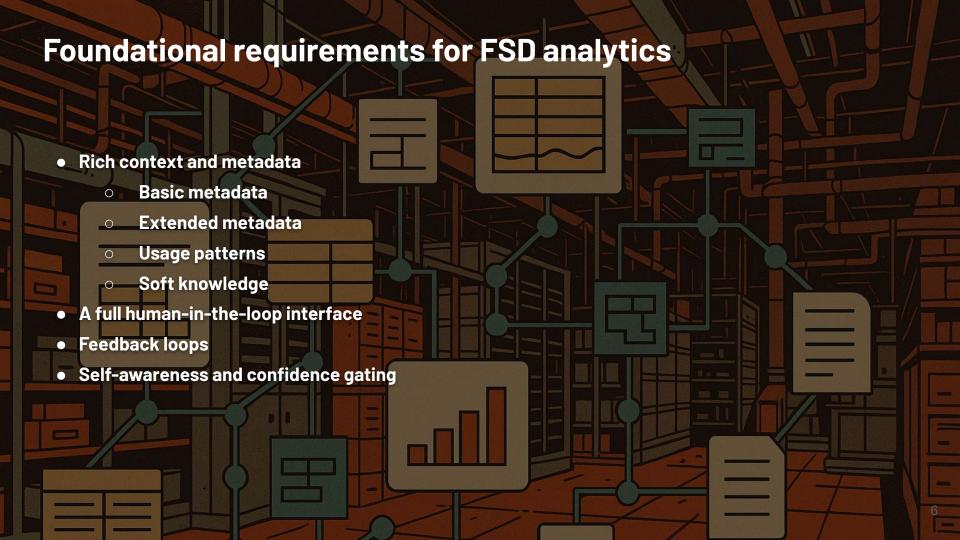
Al in BI: the Path to Full Self-Driving Analytics

Maxime Beauchemin SUPERSET DEVELOPER

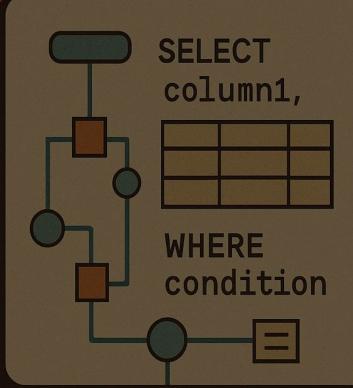
Two families of use cases



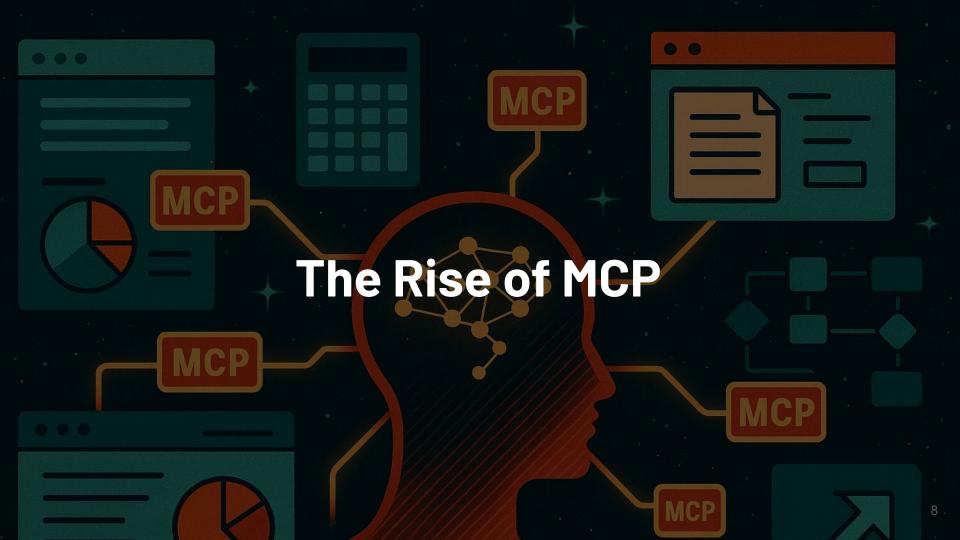




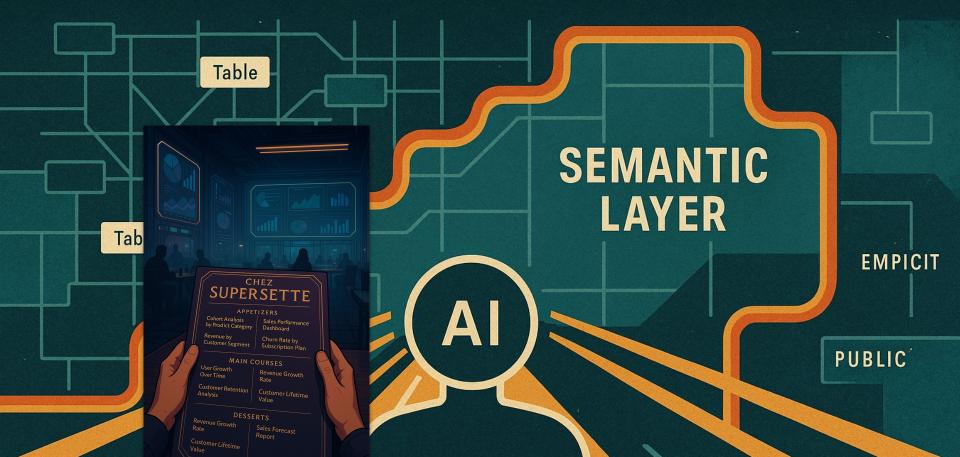
Learnings while building text-to-SQL @ Preset



- Custom training & fine-tuning aren't viable RN
- RAG can be great but has clear limitation
- Privacy and RBAC are real concerns in the way of adoption
- Magic moments exist but trust is fragile
- Real-world data warehouses are messy AF
- Until 99% accuracy, introspection and a professional are REQUIRED



THE SEMANTIC LAYER AS GUARDRAILS



- The revolution will happen on familiar grounds steering wheels will remain in car for quite some time
- Al entrustment will be a journey with a long tail practitioners are likely to be behind the wheel to oversee Al
 - Lookout for MCP! RAG to concede the place except for targeted, deep-in-product assisted workflows