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/ About Adastra

Adastra is an international consulting company that creates synergy by consulting and supporting businesses through command of modern technologies, facilitating the transition to the digital era. We help our customers maximize the value of their data, drive innovations, and improve their operational excellence as well as customer experience. We deliver custom-tailored solutions and services in various areas, such as Data Engineering, RPA, AI, Data Governance and Cloud Services, because we know that data connects everything!

Topic: Data Engineering Framework in the Cloud

Data Lakes are increasingly being migrated to the cloud or built directly in the cloud. In this topic, different approaches/procedures can be compared. For example:

- Leading commercial BI/ETL tools with (Spark) code generation
- Execution plans of the code of a special optimizer
- Self-developed Phyton/Spark code

This could be compared for 3-4 classic ETL tasks looking at performance of the job and time required for self-development. This leads to an evaluation/comparison of pre-built data engineering packages versus use case specific custom code.

One aspect here could also be the graphical push-down procedure (using drag and drop) offered by some ETL tools. The questions here are:

- Does this deliver the ease of use it promises?
- What are the limitations compared to self-programming?

A use case can be implemented, e.g. for data historization.

If you have other ideas for a thesis topic – be it in the field of Data Engineering Frameworks in the Cloud or any other Data Management-related direction – we are also looking forward to hearing from you!

/ Sounds interesting? Contact us!

Boriana Gebova
Recruitment Manager
Mobile: +49 (0)172 1523594
boriana.gebova@adastragrp.com

Dr. Michael Simora
Lead Consultant
Mobile: +49 (0)172 5741381
michael.simora@adastragrp.com