Write your thesis at Adastra

You would like to write your thesis in a company? No problem! Get to know Adastra and our ideas for possible thesis topics in our company.

/ 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: Cybersecurity in the Cloud

Give an overview of the current technological status with regard to cyber threats in the cloud, considering:

- What are the strengths/weaknesses of data storage and processing technologies in the cloud, especially with regard to data and information security?
- What new technologies are on the horizon?

Topic “Predictive Security”
An important topic is “predictive security” in which unfiltered endpoint data sets are analyzed for potential attack tactics with the aim of predicting them and taking appropriate protective measures.
A use case can be examined and a proof-of-concept can be implemented.

Topic “Searchable Encryption in the Cloud”
Another topic deals with data encryption in the cloud. The following questions could be answered, followed by a proof-of-concept:
- What technologies are available for encrypting data in the cloud?
- What are the advantages/disadvantages?
- To what extent is it possible to work directly with encrypted data? (e.g., operations are performed directly on the encrypted data without decrypting it).

Topic “Encryption in the Data Warehouse context”
What are the effects of encryption on performance and costs, especially for Big Data ETL scenarios?
This requires a comparison of different encryption algorithms.

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

/ Sounds interesting? Contact us!

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