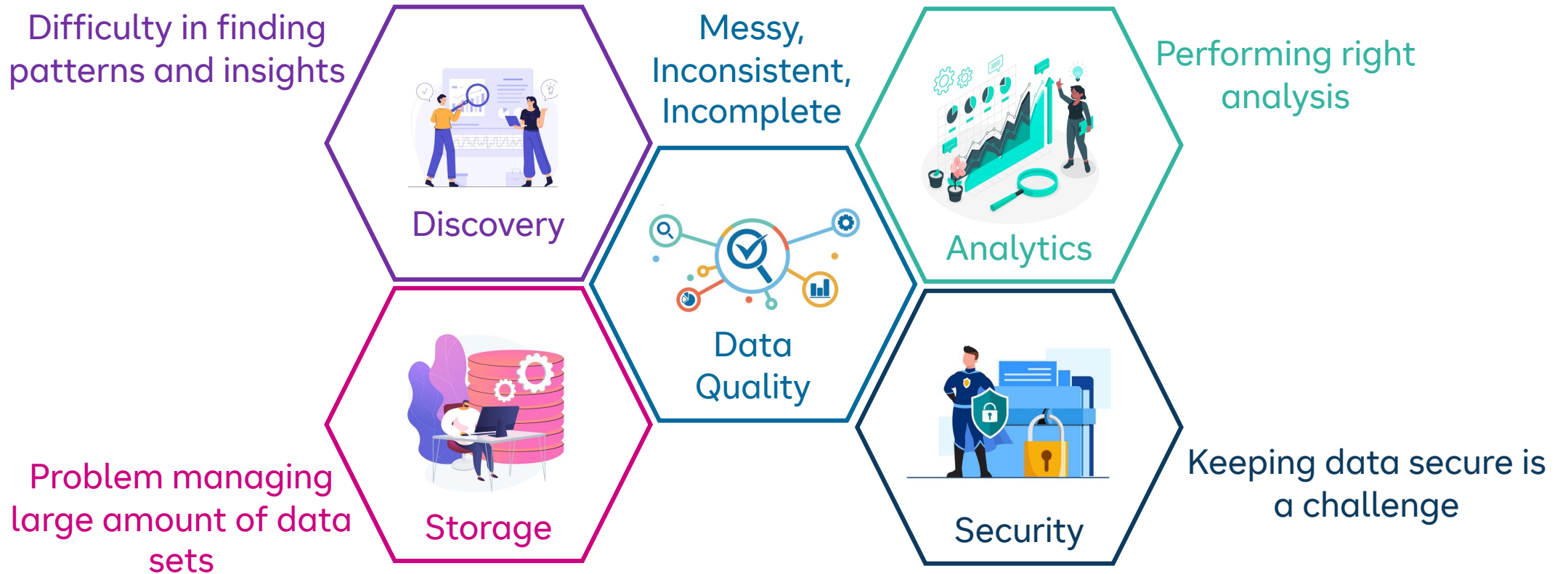




**Applied Data Science and Analytics
Master of Science**

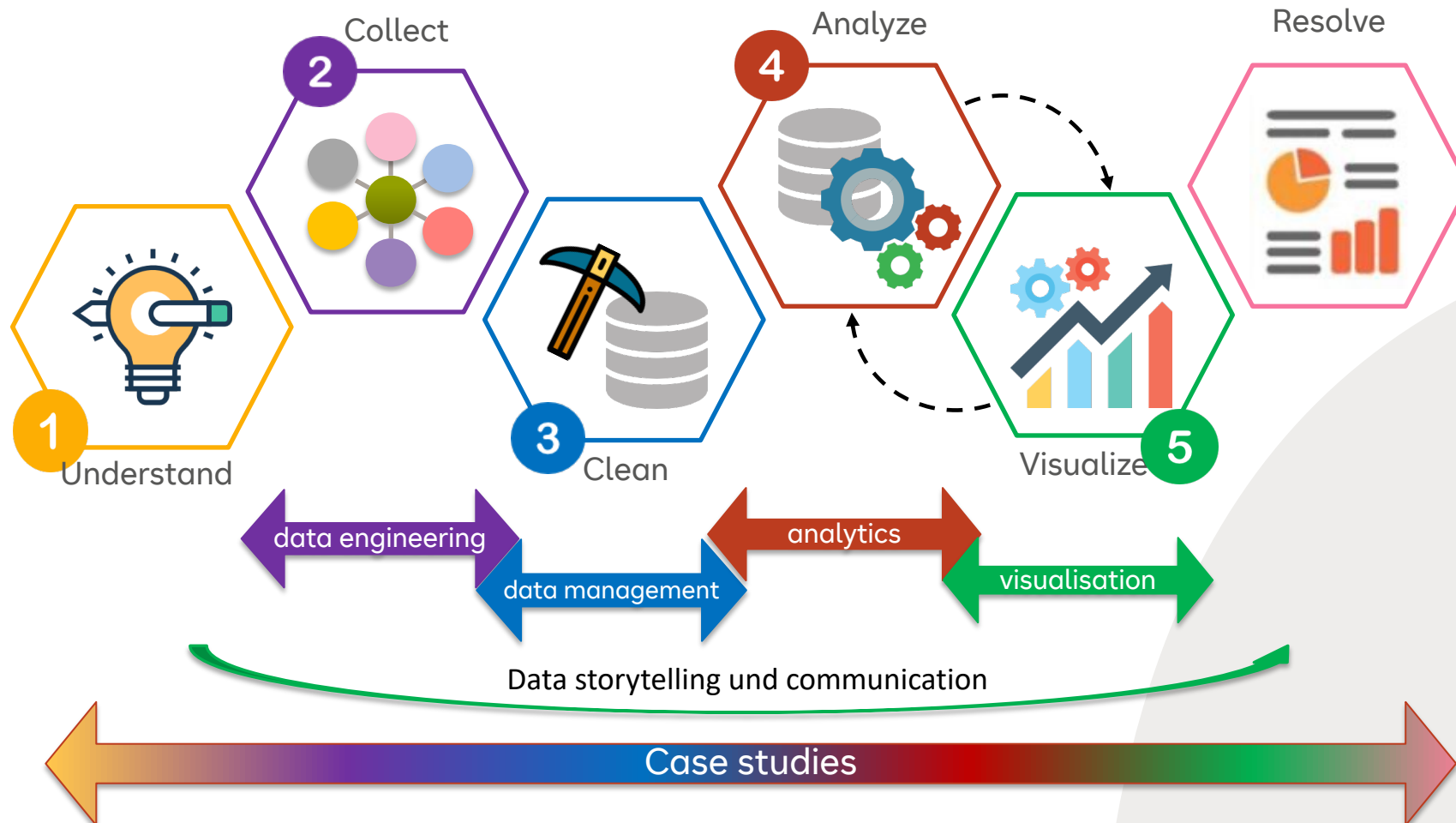
Big Data - Challenges



Learning Outcomes

- In-depth knowledge and understanding of **Applied Data Science**.
- Application of **analytical techniques and machine Learning/deep Learning** algorithms to solve complex data problems in business.
- Skills you need to leverage **data to reveal valuable insights** and help make customers valuable decisions.
- **Formulate technical problem solutions** and represent them in discourse.

Masters in Applied Data Science and Analytics



Course Curriculum



| | | Fundamental Data Science and Analytics | | | | Intermediate Data Science and Analytics | | | |
|-------------|--|---------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------|
| | | Block 1 | Block 2 | Block 3 | Block 4 | Block 5 | Block 6 | Block 7 | Block 8 |
| 1. Semester | | First Steps into Case Studies (5 CP) | Data Analytics 1: Statistics and Machine Learning (8 CP) | Data Engineering 1: Big Data Databases (5 CP) | Data Management 1: Data Acquisition and Data Cleaning (4 CP) | Data Analytics 2: Text Mining and Natural Language Processing (7 CP) | Data Engineering 2: Big Data Architectures (6 CP) | Data Visualization and Storytelling 1: Designing Interactive Dashboards (5 CP) | Privacy, Ethics & International Law (6 CP) |
| | | Data Visualization and Storytelling 1: Design Basics (2CP) | Big Data Programming : Python (6 CP) | | | Case Study 1 (8 CP) | | | |
| | | Advanced Data Science and Analytics | | | | Expert Data Science and Analytics | | | |
| | | Block 9 | Block 10 | Block 11 | Block 12 | Block 13 | Block 14 | Block 15 | Block 16 |
| 3. Semester | | Data Management 2: Data Curation and Data Management (4 CP) | Data Analytics 3: Deep Learning (8 CP) | Elective Module: Case Study 2 or Internship (14 CP) | | Master thesis project (27 CP) | | | |
| | | Data Visualization and Storytelling 2: Advanced Data Visualization (5 CP) | | | | | | | |
| 4. Semester | | | | | | | | | |
| | | | | | | | | | |

Study according to the CORE principle

Competence Oriented Research and Education

Our activated teaching & learning method

- Group project, Flipped classroom, case studies, project pitches from local companies
- Practical teaching and exams
- 5-week blocks – no end of the semester exam stress!
- Focus only on 1-2 subjects in 5 week blocks
- Direct contact hours with professors



core

Thank you!!

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