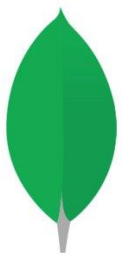
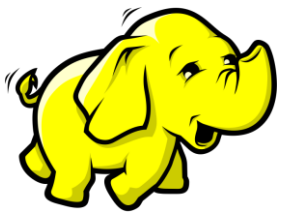
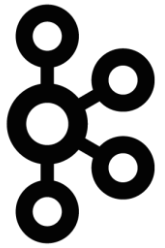
SQL, NoSQL, Big Data & Hadoop

Michael Enudi

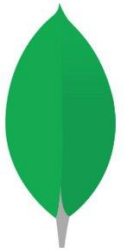
Journey through the world of databases and data engineering

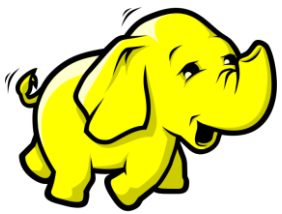
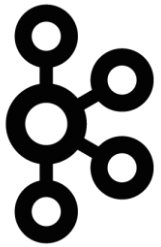


Scope

- Relational Database Systems, their features, use cases and limitations
- Why NoSQL?
- CAP Theorem
- Key-Value store and their use cases
- Document-oriented databases and their use cases
- Wide-columnar store and their use cases
- Time-series databases and their use cases
- Search Engines and their use cases
- Graph databases and their use cases
- Distributed Logs and real time streaming systems
- Hadoop and its use cases
- SQL-on-Hadoop tools and their use cases



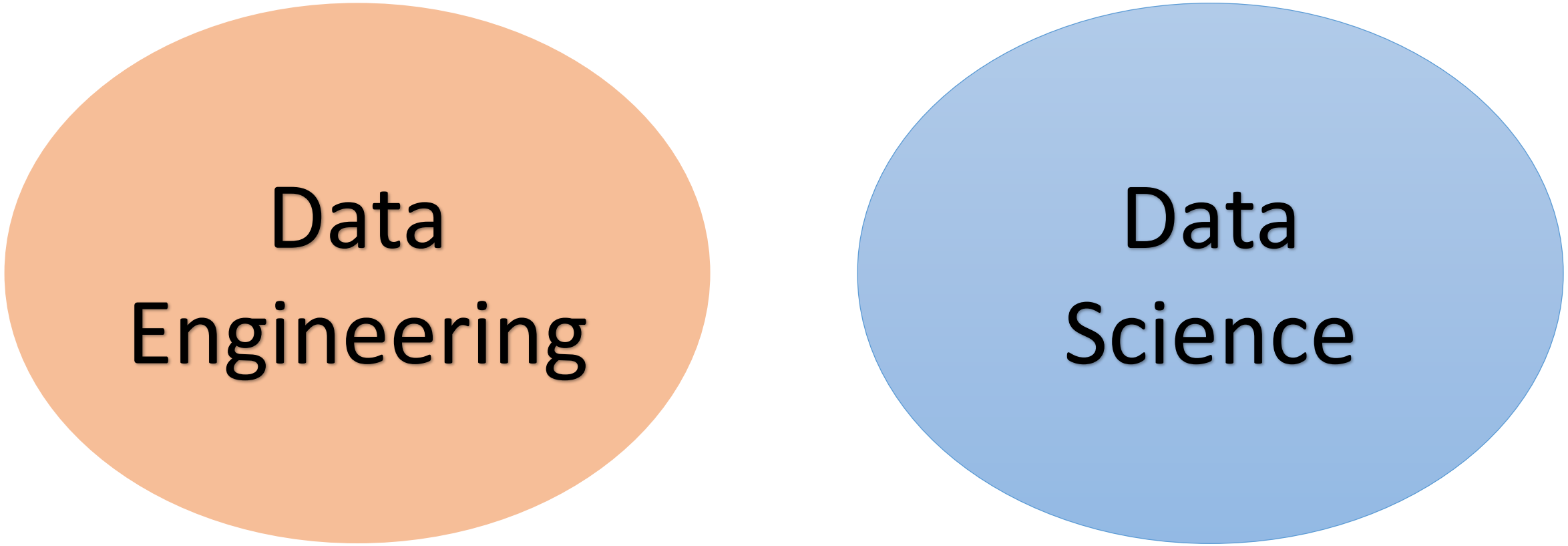
What is the target audience?

What you will get out of this course?

What we don’t cover?

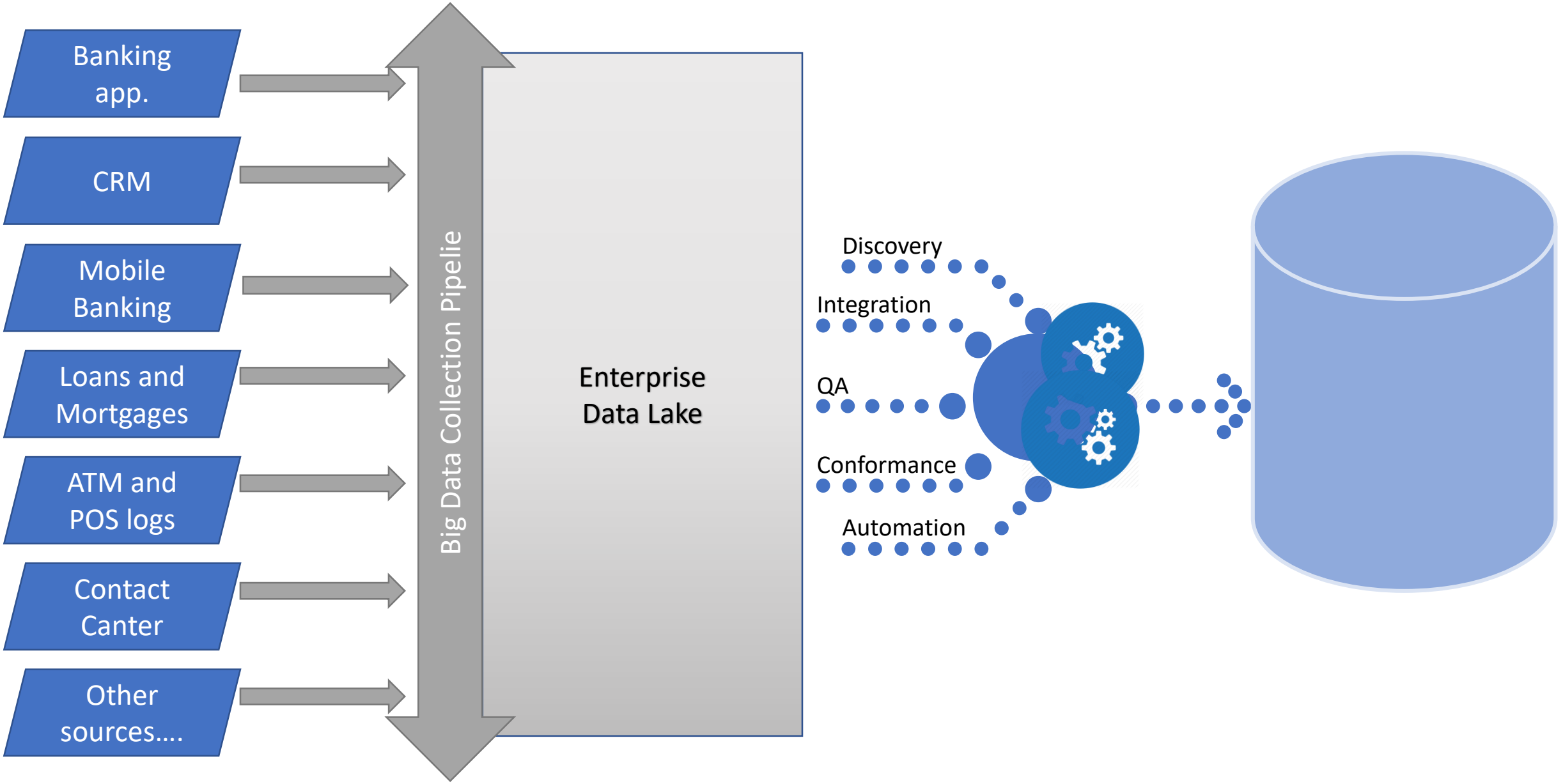
What do I need to know/have to get the best out of this course?

How do I follow through this course?

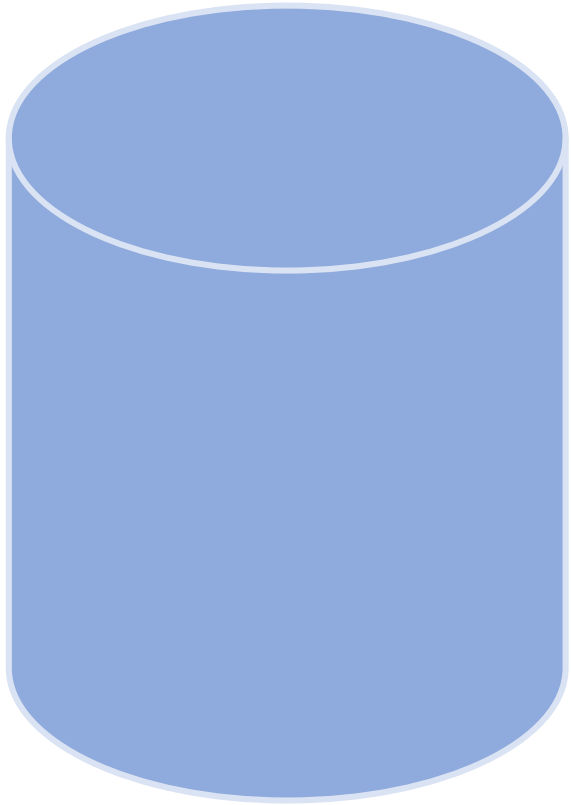


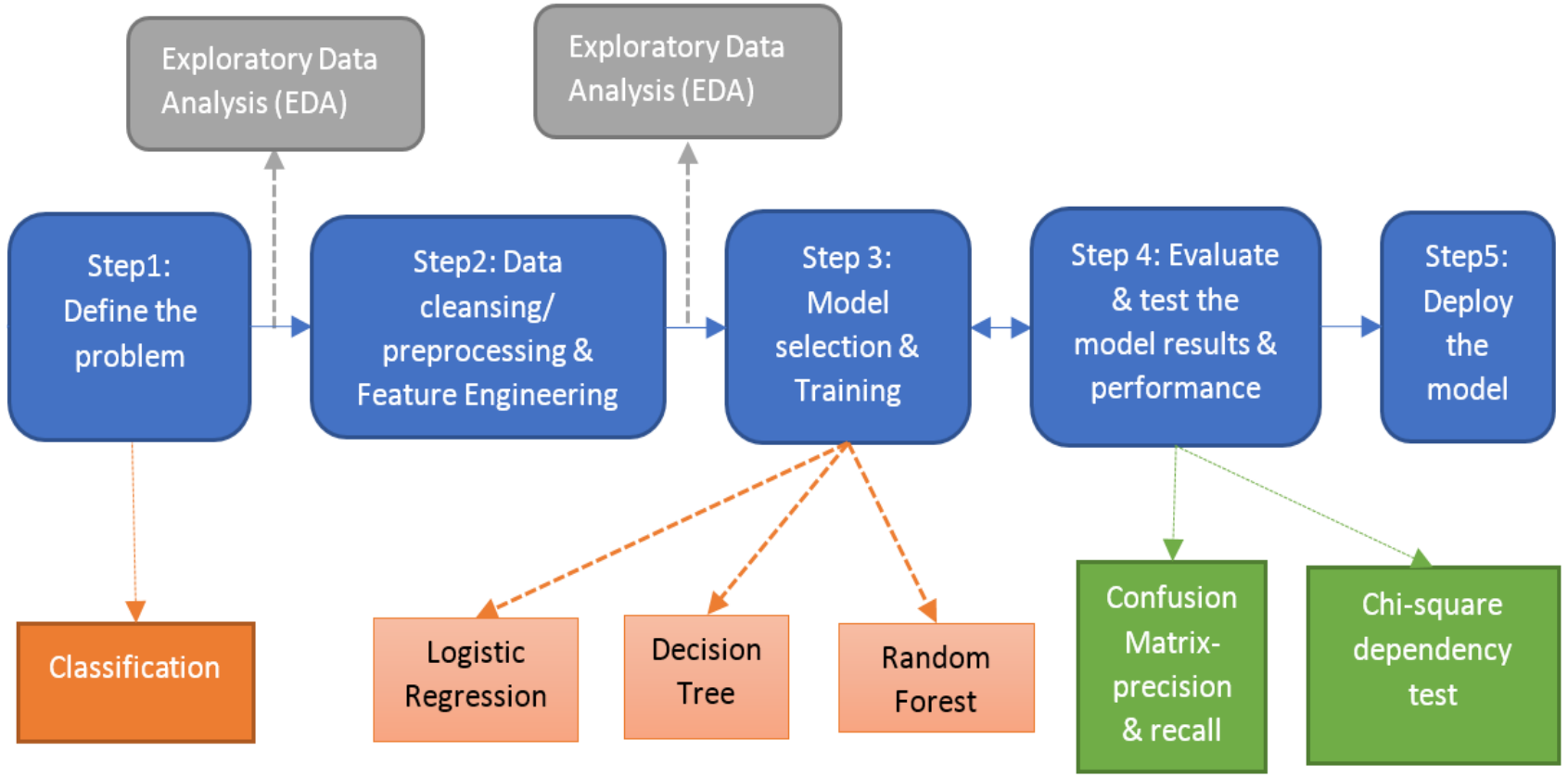
Big Data Analytics

Data Engineer @ work

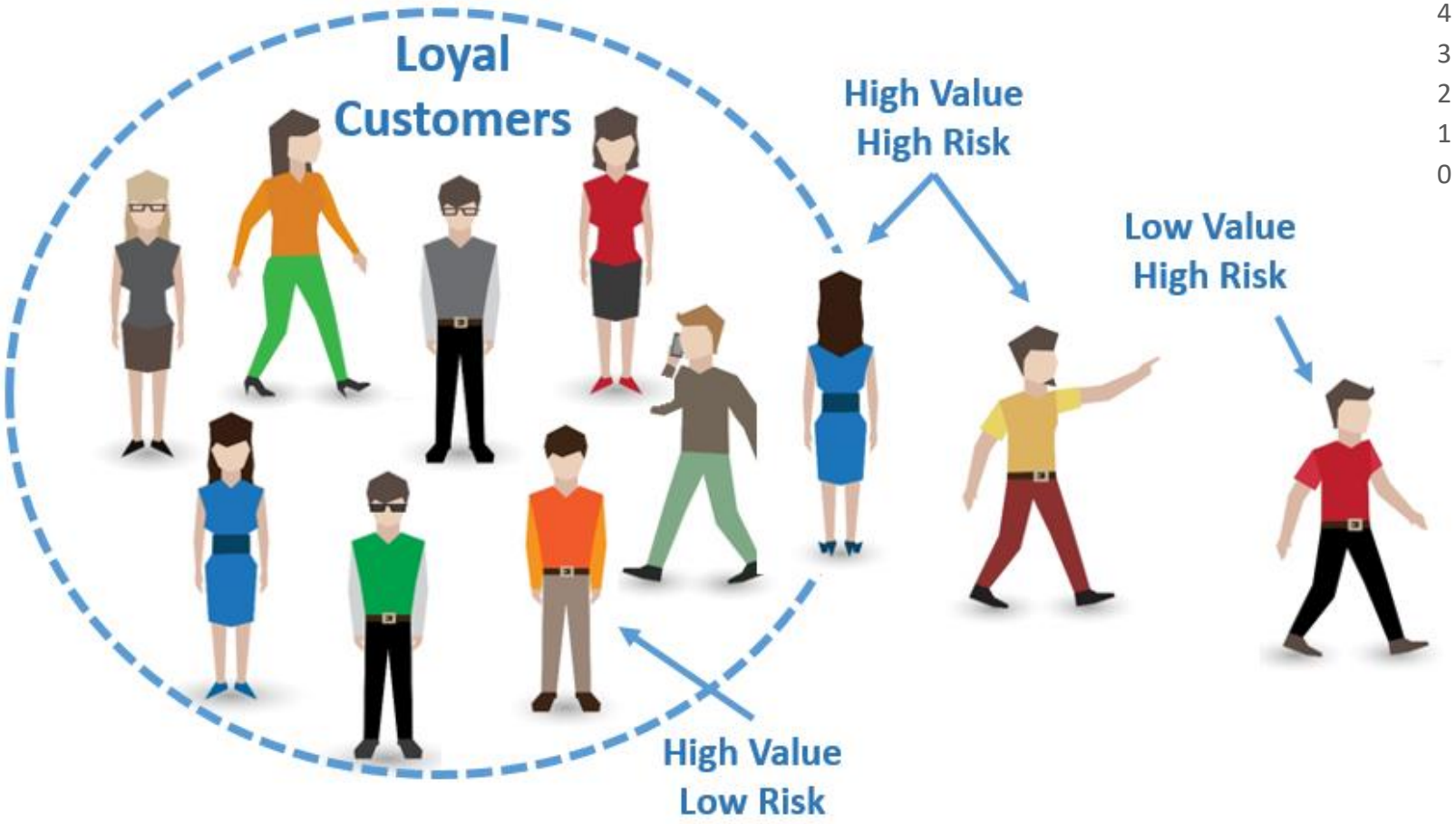


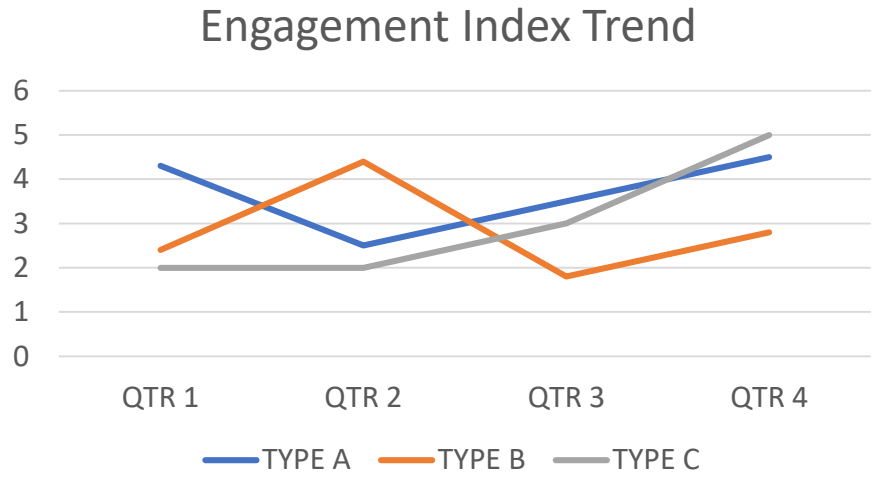
Data Scientis @ work

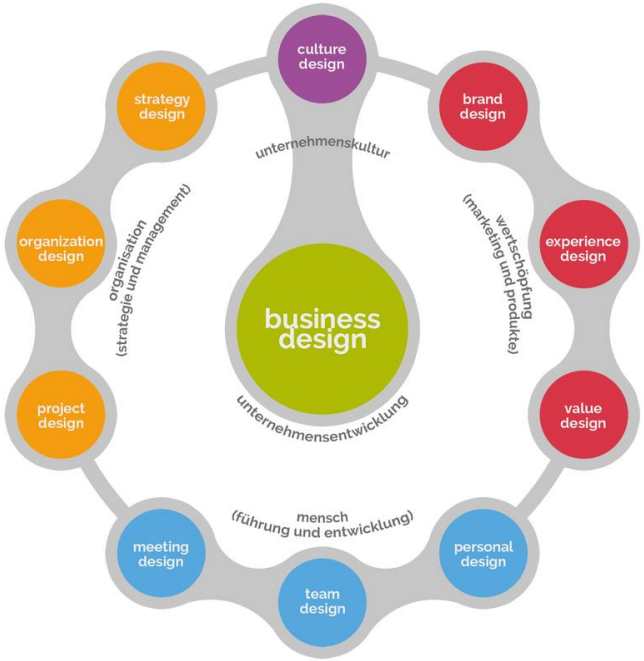




Business Value



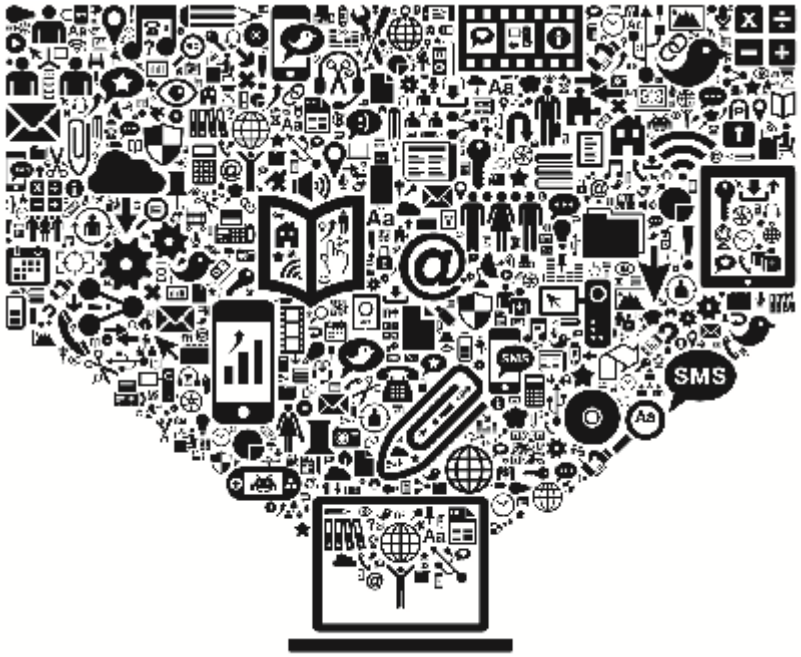




What do we do with Data

Data/Software Engineers

- ❑ Collect
- ❑ Storage
- ❑ Process
- ❑ Query / Report
- ❑ Visualize
- ❑ Analyze / Mining
- ❑ Integrate

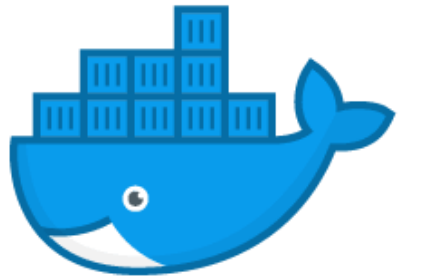


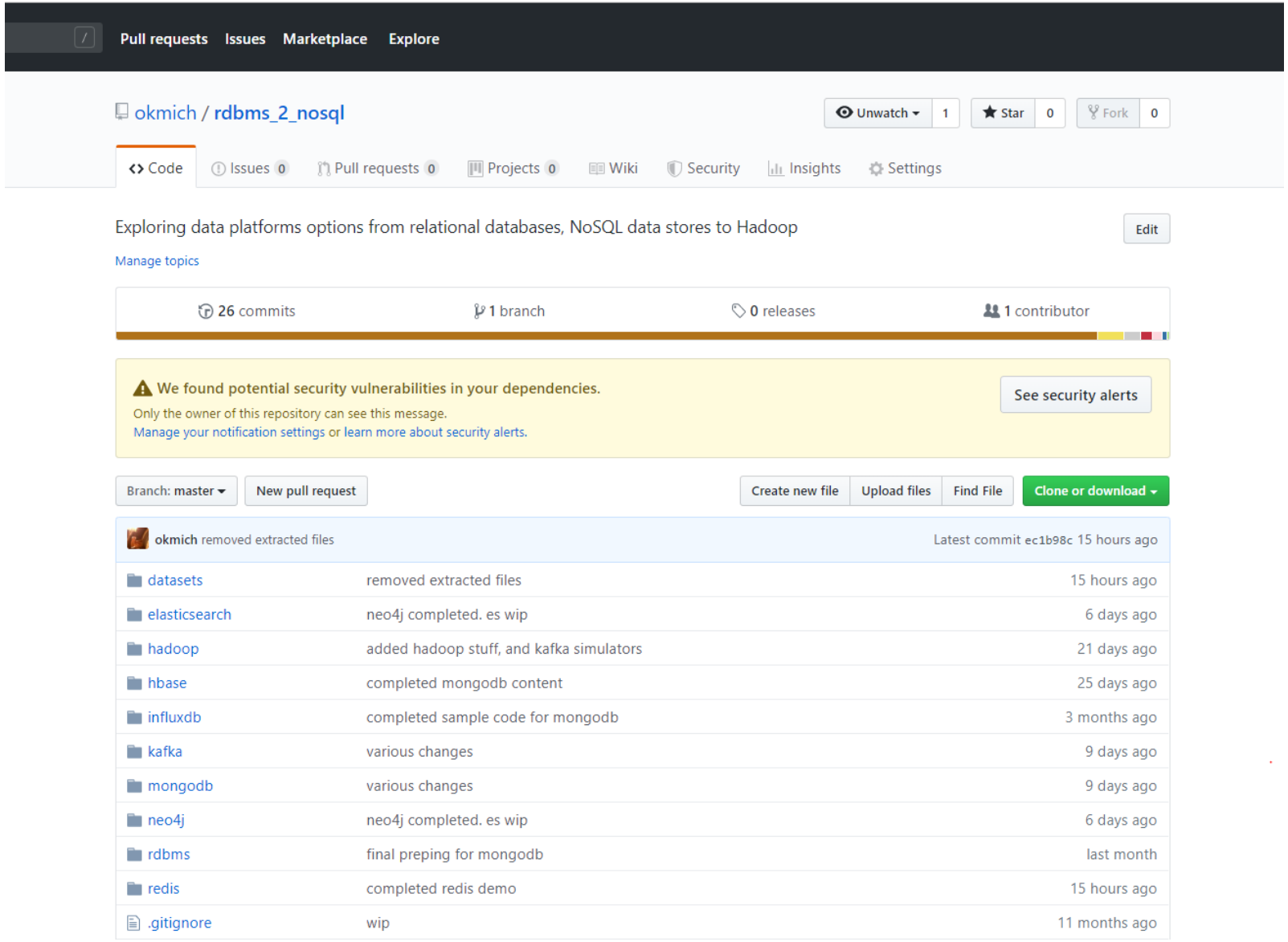
Everyone Else

- ❑ Journal
- ❑ Knowledge
  - ❑ Descriptive
  - ❑ Inferential
  - ❑ Analytical
- ❑ Action (Decision)
- ❑ Model Building

Learning Environment & Course Material

VM


docker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Pull requests
Issues
Marketplace
Explore
okmich / rdbms_2_nosql
Unwatch 1
Star 0
Fork 0
Code
Issues 0
Pull requests 0
Projects 0
Wiki
Security
Insights
Settings
Exploring data platforms options from relational databases, NoSQL data stores to Hadoop
Edit
Manage topics
26 commits
1 branch
0 releases
1 contributor
We found potential security vulnerabilities in your dependencies.
Only the owner of this repository can see this message.
Manage your notification settings or learn more about security alerts.
See security alerts
Branch: master
New pull request
Create new file
Upload files
Find File
Clone or download
okmich removed extracted files
Latest commit ec1b98c 15 hours ago
datasets removed extracted files 15 hours ago
elasticsearch neo4j completed. es wip 6 days ago
hadoop added hadoop stuff, and kafka simulators 21 days ago
hbase completed mongodb content 25 days ago
influxdb completed sample code for mongodb 3 months ago
kafka various changes 9 days ago
mongodb various changes 9 days ago
neo4j neo4j completed. es wip 6 days ago
rdbms final preping for mongodb last month
redis completed redis demo 15 hours ago
.gitignore wip 11 months ago

Databases