Learn Data Engineering & Solve Problems with Python

The Complete Python Course for Non-Tech and Tech Professionals

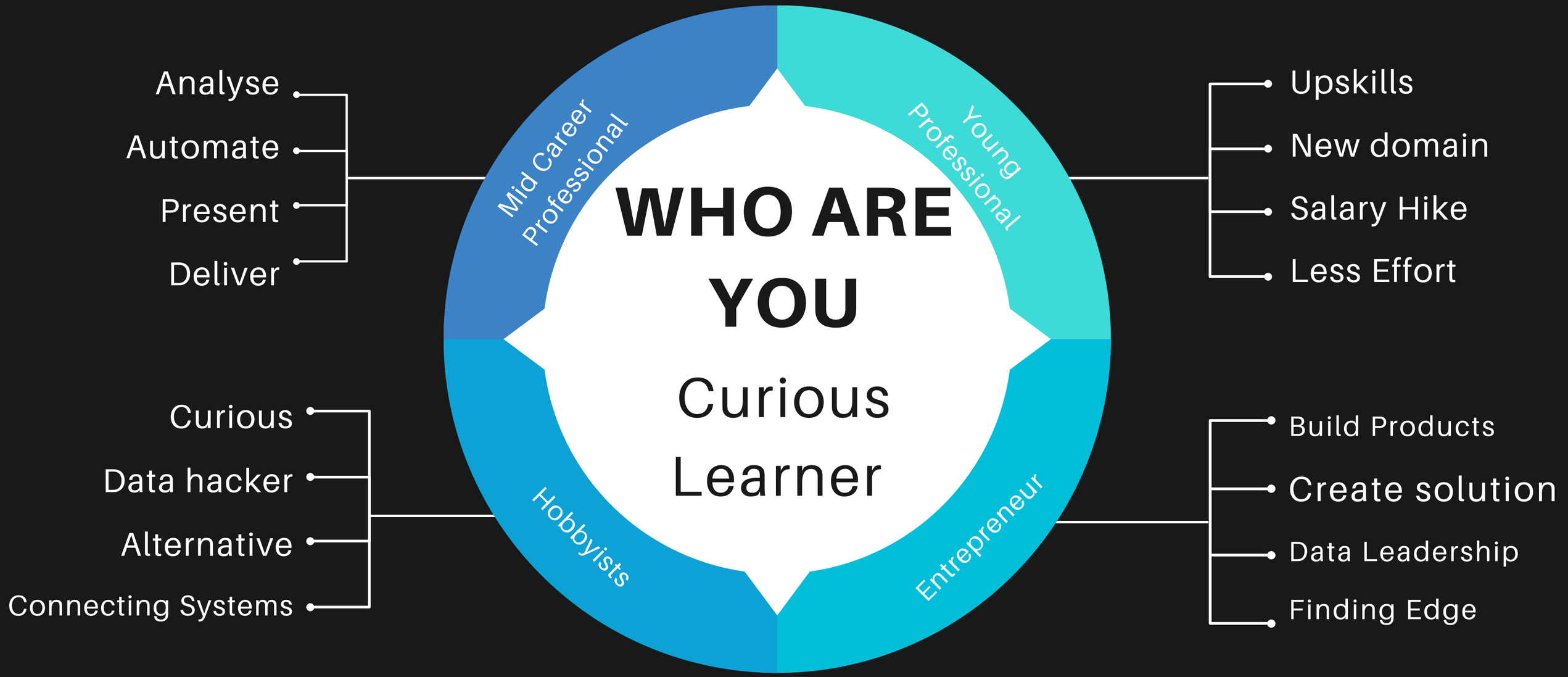
Challenge first approach

Automating Implementation : Python

Enabling Big Data & Cloud Computing

Data Pipeline SQL and API development

Visualisation and Presentation

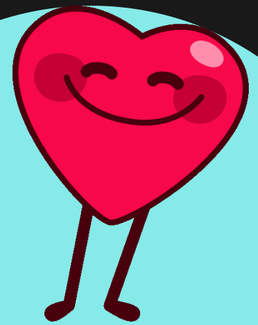

WHO ARE YOU
Curious Learner
Mid Career Professional
Young Professional
Hobbyists
Entrepreneur
Analyse
Automate
Present
Deliver
Upskills
New domain
Salary Hike
Less Effort
Curious
Data hacker
Alternative
Connecting Systems
Build Products
Create solution
Data Leadership
Finding Edge

MAKING YOU

FALL IN LOVE WITH PYTHON & PROGRAMMING

Attention

Goal Seeking



FALL IN LOVE

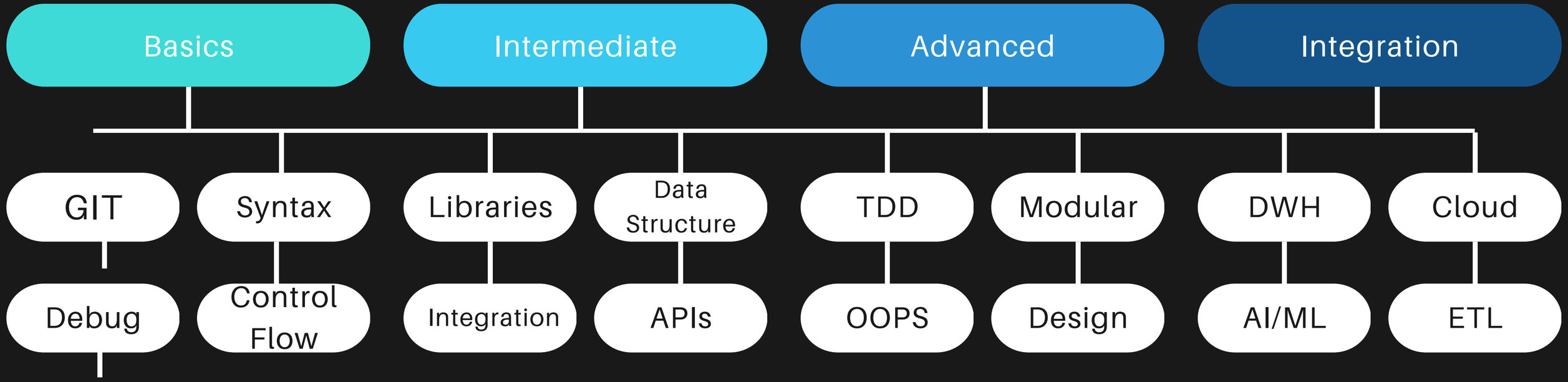
Solve Problems

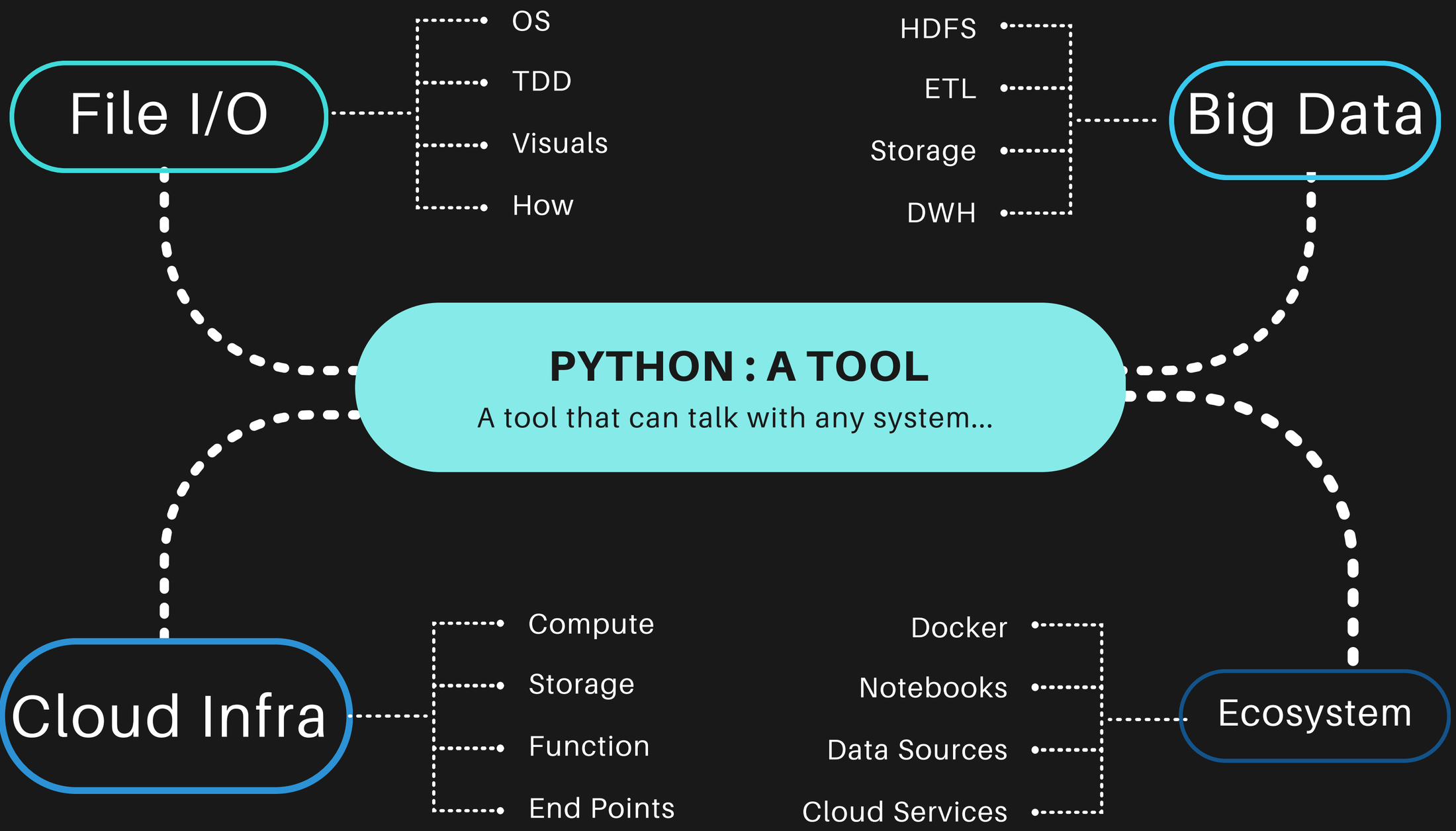
Predictable

Understanding

YOUR CHALLENGES

Learning to Program




File I/O
OS
TDD
Visuals
How
Big Data
HDFS
ETL
Storage
DWH
PYTHON : A TOOL
A tool that can talk with any system...
Cloud Infra
Compute
Storage
Function
End Points
Ecosystem
Docker
Notebooks
Data Sources
Cloud Services

Eights of Python

PYTHON : A DATE

1. Python on Win n Lin
2. Setting up Git
3. First Program
4. Control Freak
5. Loopy Python
6. Functions + Objects
7. Files I/O
8. Test Driven Development

LIBRARIES

1. Pandas Dataframes
2. Psycopg2 Database
3. SQLAlchemy ORM
4. DBT for Schema Validation
5. FastAPI
6. Streamlit
7. AWS Wrangler
8. PySpark

SQL & PYTHON

1. SQL with DBeaver
2. Data Modeling Tables
3. SparkSQL and PGSQL
4. SQL Data Analysis
5. CTEs Vs Subquery Vs CTAS
6. Modeling Unknowns
7. SQL Window Functions
8. Data marts Hands on

LINUX :

1. SSH into a Linux Machine
2. Using AWK / Cut
3. Using SED
4. Using Grep
5. Configuring SpaceVim
6. Using Vim
7. Using Tmux
8. Shell Scripting - A primer

Eights of BIG DATA

DWH : A DATE

1. Hadoop Cluster : How TO
2. File management HDFS
3. Hive Query HDFS
4. Spark Vs Hive Metastore
5. Partitioning in BigData
6. Data Analysis in BigData
7. Spark Dataframe Stream
8. Writing out Data

AWS : A DATE

1. Connecting to AWS
2. Uploading File to S3
3. Reading Files from S3
4. Introducing Glue
5. Writing schema to Glue
6. Introducing Athena
7. Querying with Athena
8. ETL Projects

DOCKER : A DATE

1. Why Docker
2. How Docker
3. Which Docker
4. Piping Dockers
5. Docker in Production
6. Dockerfile Vs Compose
7. Pipeline with Docker
8. Spark and Kafka

DE PROJECTS

1. Health Analytics project
2. Learners Analytics project
3. Customer Analytics pjt
4. Marketing Analytics pjt
5. Ecommerce Analytics pjt
6. Social Media Analytics pjt
7. Energy Analytics pjt
8. Transportation Analytics

QUESTIONS

THANKS FOR WATCHING