

Learn Data Engineering & Solve Problems with Python

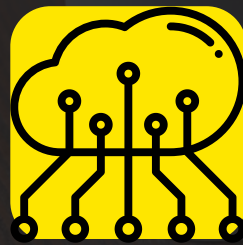
The Complete Python Course for Non-Tech and Tech Professionals



Challenge first approach



Automating Implementation : Python



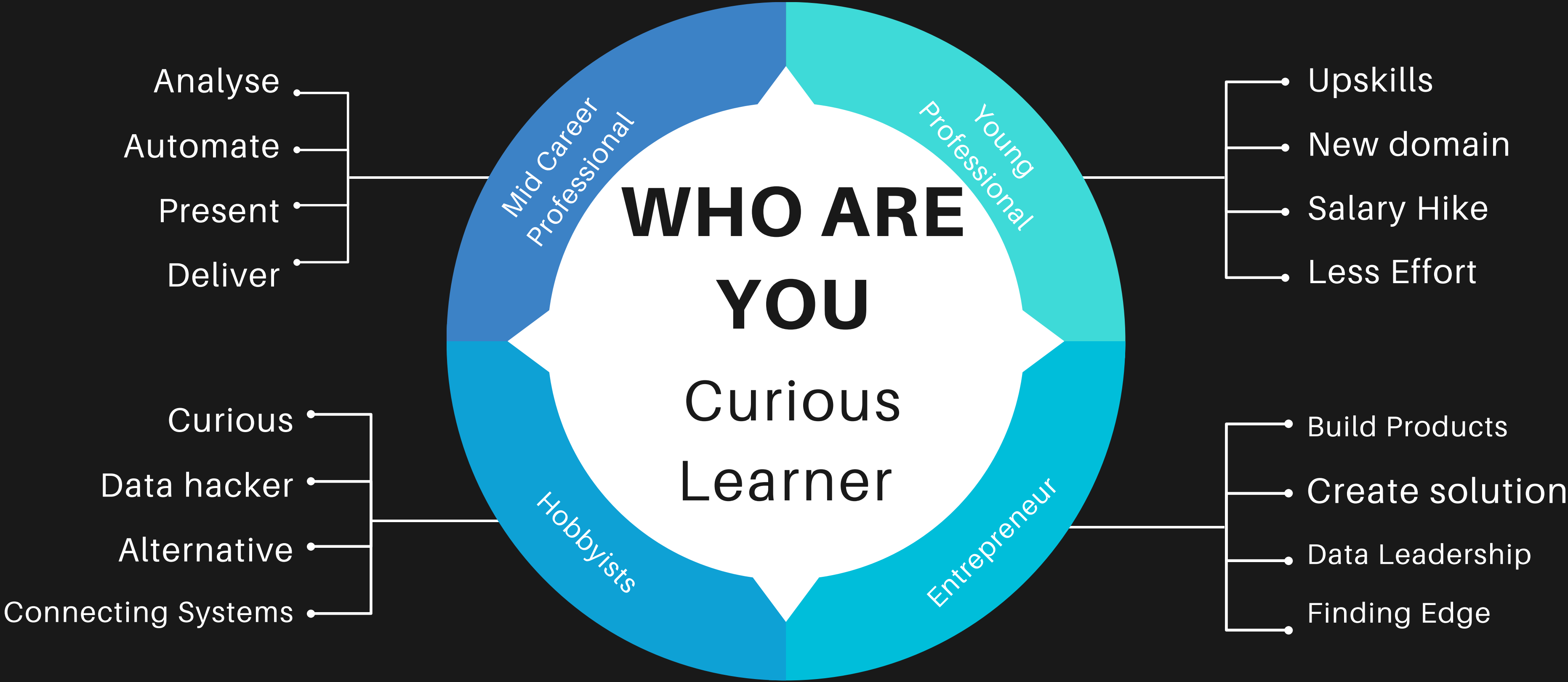
Enabling Big Data & Cloud Computing



Data Pipeline SQL and API development



Visualisation and Presentation





MAKING YOU



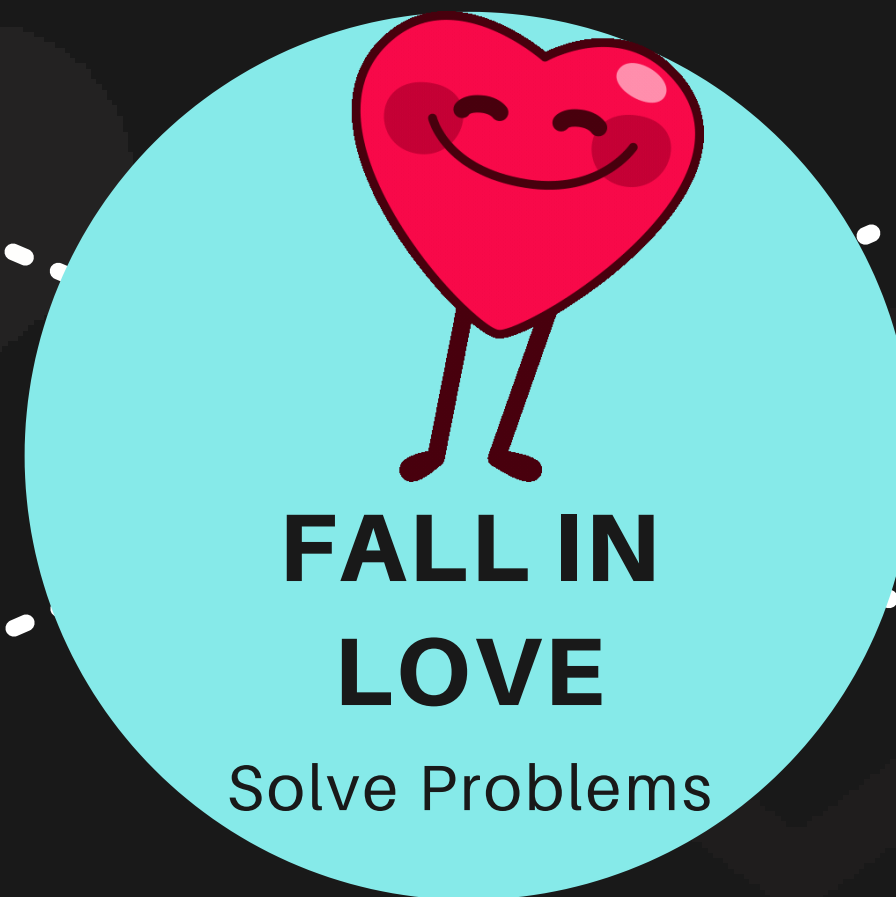
FALL IN LOVE
WITH PYTHON &
PROGRAMMING

Attention

Goal
Seeking

Predictable

Understanding



YOUR CHALLENGES

Learning to Program

Basics

GIT

Debug

Syntax

Control
Flow

Intermediate

Libraries

Integration

Data
Structure

APIs

Advanced

TDD

OOPS

Modular

Design

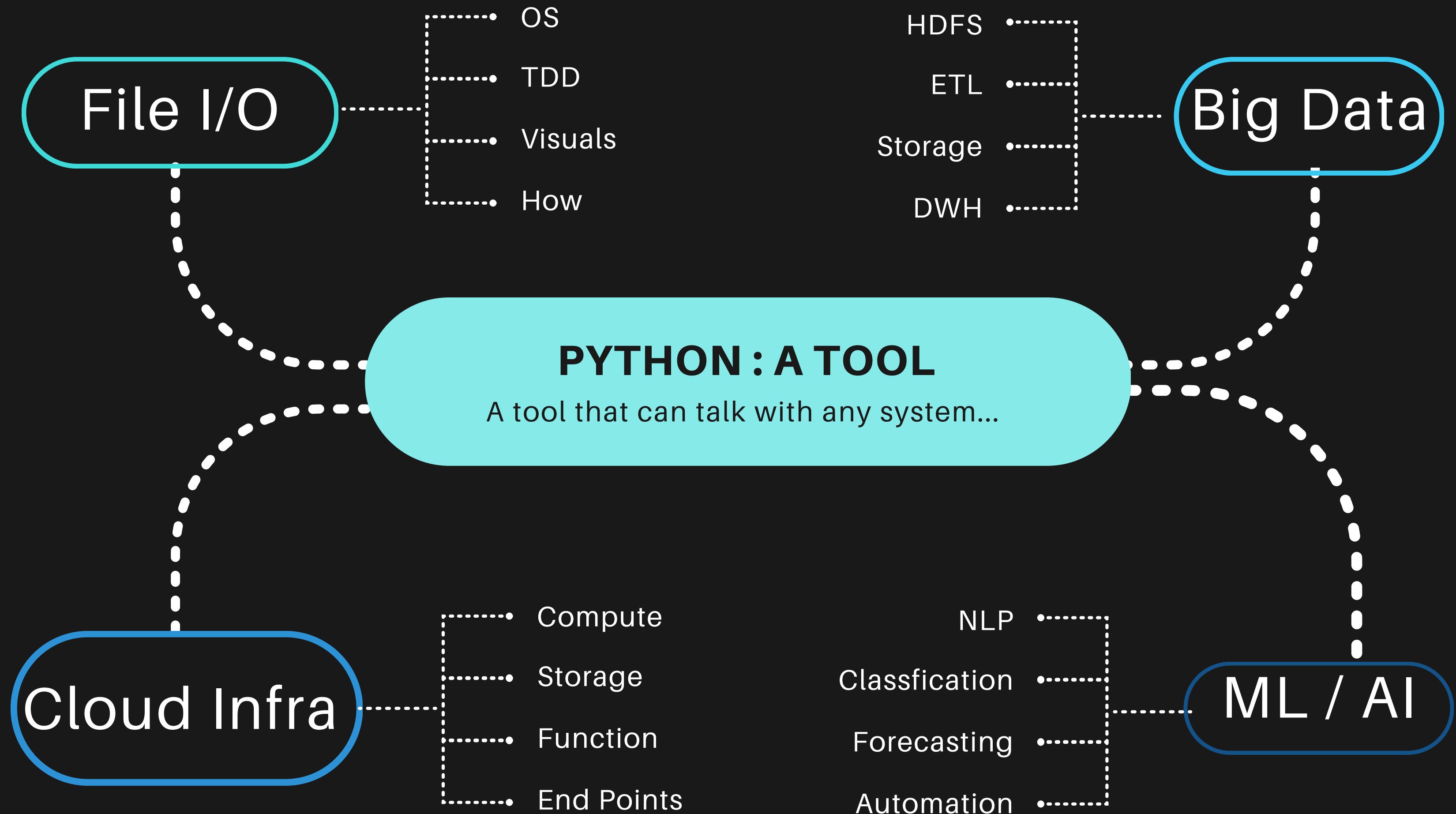
Wealth

DWH

AI/ML

Cloud

ETL



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. Psycpg2 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 DE PROJECTS

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

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