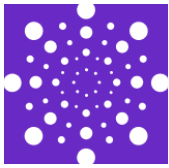


A Platform for progress, A JOMBL for All



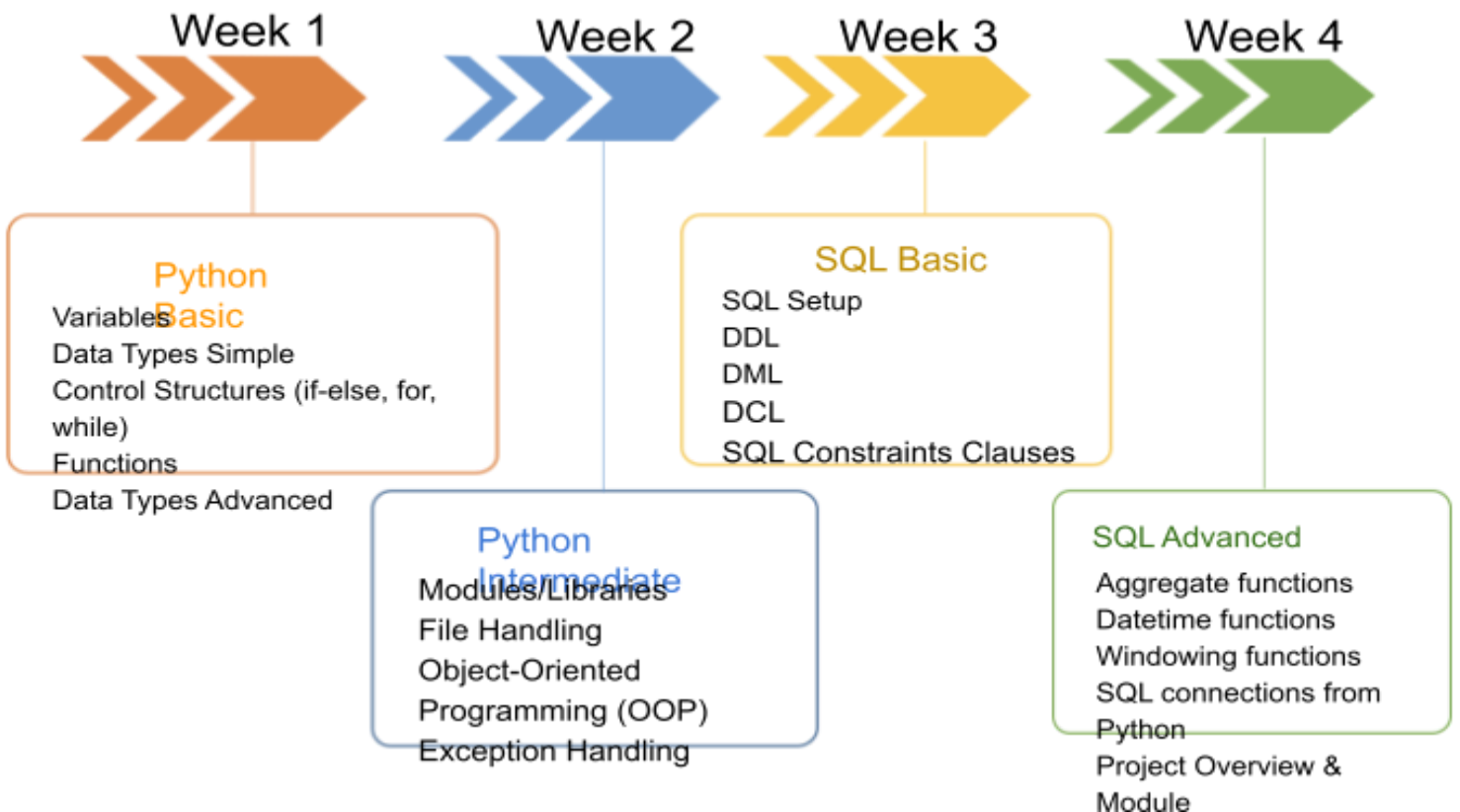
Data Engineering Internship





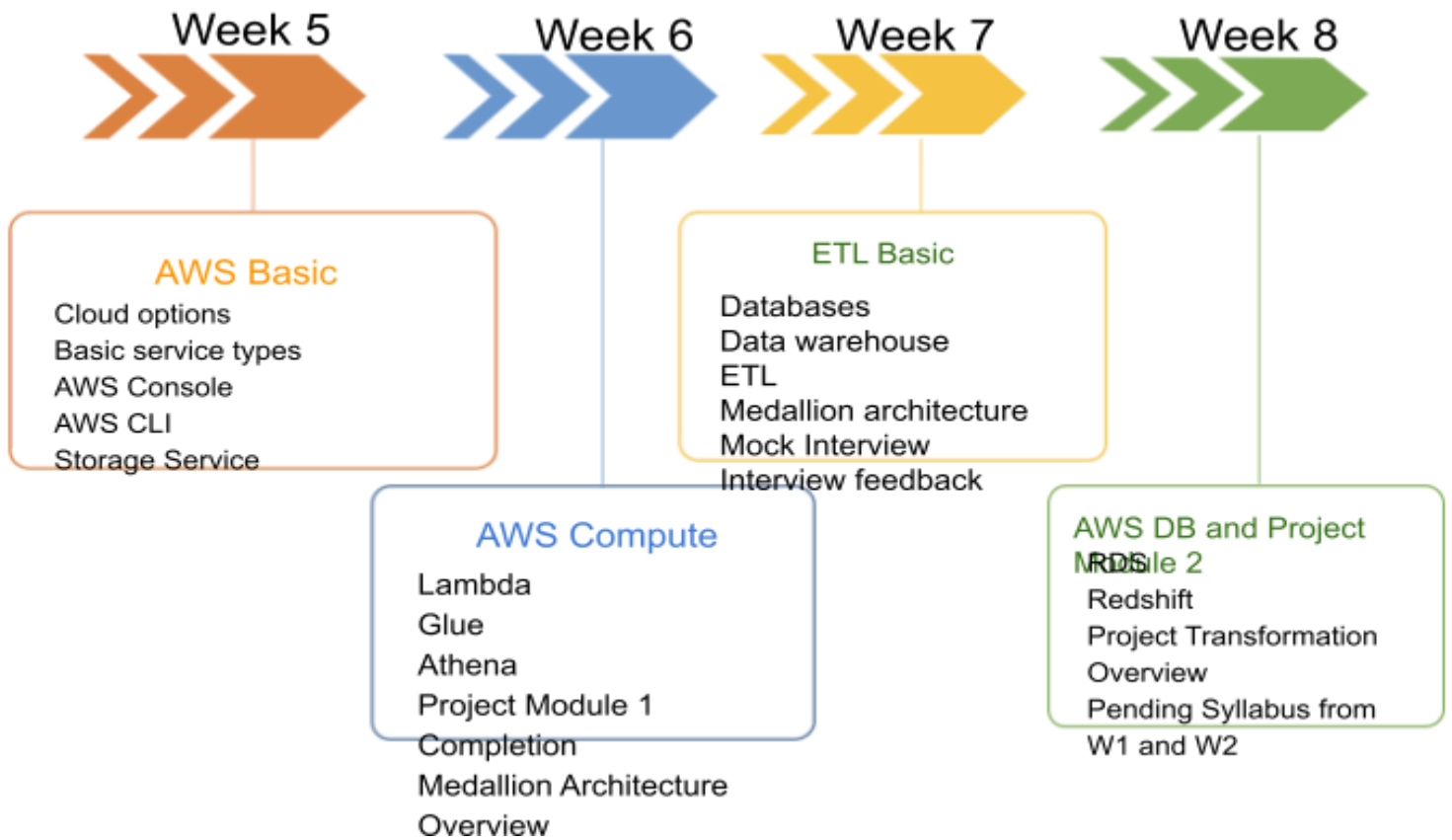
Learning Path & Plan

Week 1 to Week 4 Plan



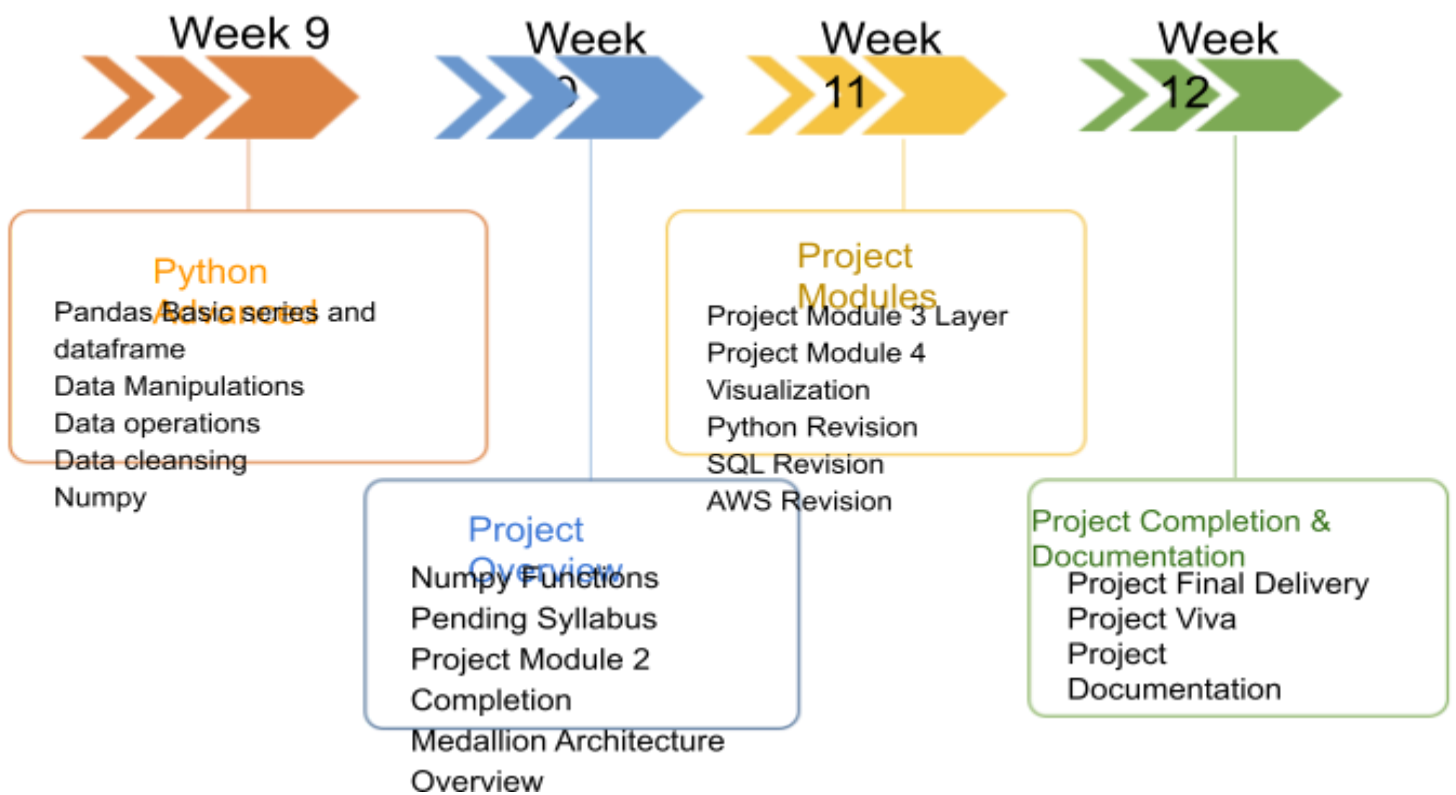


Week 5 to Week 8 Plan





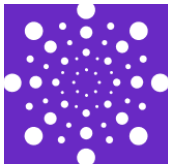
Week 9 to Week 12 Plan





Python Setup , Variables, Data Types, Functions

- What is Python
- A Brief History and Applications of Python
- How Python is differ from other languages
- Installing Python and Environment Setup
- Variables & Data types
- Python Operators
- Control Statements in Python If else
- Loops in Python
- Programs on all above concepts
- Defining and calling Function
- The anonymous Functions
- Passing Functions to a Function
- Lists, tuples & Dictionary String Operations in Python
- Generators, Comprehensions
- Lambda Expressions
- File handling

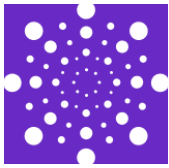


Python Object Oriented Concepts

- Object Oriented Programmings
- Define Classes & Creating Objects
- Class variables and Instance Variables Constructors
- Concept of Object and Classes
- Access Modifiers
- How to define Python classes
- Built-In Class Attributes
- What is Inheritance
- What is Polymorphism
- Exception handling
- Libraries and Framework

Numpy and Operations

- Concepts of Numpy
- Basic & Matrix Operations
- Indexing, Slicing, Iterating Array
- NumPy Functions



Pandas and Operations

- What is Pandas
- Pandas Series
- Pandas DataFrame
- DataFrame Indexing and Loading
- Dataframe Operations
- Data Manipulation
- Data Cleaning
- Grouping and Aggregation
- Querying a DataFrame
- Missing Values
- Merging Dataframes(Joins & Filtering)
- Pivot Tables
- Plots using Pandas

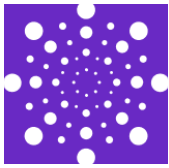
Preparation

- Interview evaluation
- Assignment evaluation



Structured Query Language

- Introduction to SQL
- Basics of SQL
- Data Definition Language
- Data Manipulation Language
- Data Control Language
- Advanced Querying
- Transaction Control Language
- Indexing & Optimization
- SubQueries
- Views
- Windowing functions
- Aggregate functions
- CTE

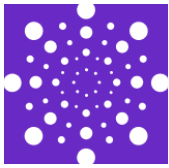


AWS Cloud Services

- What is Cloud
- What is AWS
- What is Azure
- Simple Storage Service
- Buckets, Objects, Permissions, Versioning
- Lambda
- Creating and deploying Lambda functions
- Glue
- Glue Workflow
- ETL (Extract, Transform, Load) operations, Crawlers
- Athena
- Ad Hoc Querying

Real Time Project

- Medallion Architecture Project Using AWS, Python, SQL, ETL Concepts and Pandas



A Platform for progress, A JOMBL for All

Unlock Your Achievement!

Certificate