Creative-C CONCEPT

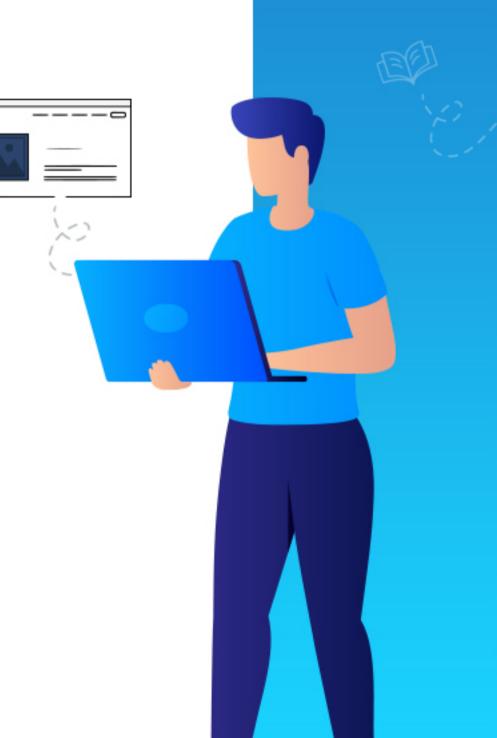# COMPLETE DATA ANALYTICS BOOTCAMP

- Duration: 10 to 11 Months

Career options
For you!

— Data Analyst

— Business Intelligence Analyst

— Data Engineer

— Quantitative Analyst (Quant)

— Data Operations Manager

— Operations Analyst

— Machine Learning Engineer

— Data Scientist

MODULES

MODULE 1:
SQL

PHASE 1
Introduction to Databases

— What is database
— Relational data and SQL
— Introduction to different database management (DBMS)

PHASE 2
Data Definition Language (DDL)

— Create Database
— Create Table
— Alter Table
— Drop Table
— Constraints (Primary key, foreign key, unique)

PHASE 3
Data Manipulation Language (DML)

— Insert into
— Update
— Delete
— Select
— Sorting and filtering data (ORDER BY, WHERE, LIKE)

PHASE 4
Basic SQL Syntax

— SQL Statements (SELECT, INSERT, UPDATE, DELETE)
— Data types (numeric, string, date, etc.)
— Introduction to different database management (DBMS)

MODULES

MODULES

PHASE 9
Database Administration

PHASE 10
Advanced Data Manipulation

MODULE 2:
TABLEAU

PHASE 1
Introduction to Tableau

— User Management

— Granting and Revoking privileges

— Backing up and restoring databases

— Performance optimisation

— Constraints (Primary key, foreign key, unique)

— Subqueries (nested and correlated)

— Set operations (UNION, INTERSECT, EXCEPT)

— Temporary Tables, Transactions and Locking

— What is Tableau? Overview and Use Cases

— Understanding Tableau Products (Tableau Desktop, Tableau Server, Tableau Online, Tableau Prep, Tableau Public)

— Installing Tableau Desktop

— Tableau Interface: Overview of the Workspace

— Connecting to Different Data Sources
   - Excel, CSV, Databases, Cloud Services, Web Data Connectors, etc.

— Understanding Live vs Extract Connections

MODULES

PHASE 2
Data Preparation in Tableau

— Data Types in Tableau
— Data Joins, Blends, and Unions
— Data Cleansing Techniques
— Pivoting and Splitting Data
— Using Tableau Prep for Data Preparation
— Cross-Database Joins and Relationships
— Creating Data Extracts and Data Aggregation
— Using Parameters for Data Preparation

PHASE 3
Basic Data Visualizations

— Creating Basic Charts
— - Bar Chart , Line chart, Scatter Plot, Pie chart & Text tables
— Sorting, Filtering, and Grouping Data
— Working with Hierarchies
— Basic Calculated Fields
— Adding Trend Lines and Reference Lines
— Dual Axis Charts and Combined Axis Charts
— Using Filters and Quick Filters

PHASE 4
Advanced Visualizations

— Creating Maps and Geographic Data Visualization
— Heat Maps and Highlight Tables
— Tree Maps
— Bullet Charts
— Gantt Charts
— Waterfall Charts

MODULES

PHASE 4
Advanced Visualizations

- Box-and-Whisker Plot
- Area Charts
- Donut Charts
- Funnel Charts
- Custom Shapes in Visualizations

PHASE 5
Dashboards and Stories

- Creating Dashboards
- Dashboard Design Best Practices
- Adding and Formatting Objects in Dashboards
- Using Dashboard Actions (Filter, Highlight, URL)
- Creating Interactive Dashboards
- Embedding Web Pages in Dashboards
- Designing Mobile Dashboards
- Creating Stories for Data Narration

PHASE 6
Calculations in Tableau

- Introduction to Calculated Fields
- String, Date, and Number Functions
- Logical Functions (IF, CASE, etc.)
- Table Calculations (Running Total, Moving Average, etc.)
- LOD (Level of Detail) Expressions
  - Fixed, Include, Exclude
- Using R and Python Scripts in Tableau (Advanced)

MODULES

PHASE 7
Advanced Analytics

— Forecasting and Trend Analysis
— Clustering and Outliers
— Creating Custom Calculations for Advanced Analysis
— Using Reference Distributions and Percentiles
— Building Statistical Visualizations (Histograms, Pareto Charts)
— Creating Motion Charts for Trend Analysis Over Time
— Parameterized Visualizations (using Parameters for Advanced Analytics)

PHASE 8
Formatting and Design

— Customizing Fonts, Colors, and Tooltips
— Custom Date Formats and Display Formats
— Adding Titles, Captions, and Annotations
— Using Layout Containers for Effective Designs
— Customizing Axis, Labels, and Legends
— Incorporating Logos, Images, and Custom Shapes
— Best Practices for Visual Design

PHASE 9
Tableau Server and Tableau Online

— Publishing Dashboards to Tableau Server or Tableau Online
— Managing Permissions and Security
— Scheduling Extracts and Refreshes
— Versioning and Collaboration on Tableau Server
— Managing Tableau Workbooks and Projects
— Working with Tableau Public for Sharing Insights
— Introduction to Tableau Catalog and Data Management Add-On

MODULES

MODULES

MODULES

PHASE 2
Basic Report Design

— Data Sources & Visual Types
— Canvas, Visualizations and Fields
— Get Data and Memory Tables
— In-Memory xvelocity Database
— Table and Tree Map Visuals
— Format Button and Data Labels
— Legend, Category and Grid
— PBIX and PBIT File Formats
— Visual Interaction, Data Points
— Disabling Visual Interactions
— Edit Interactions - Format Options
— SPOTLIGHT & FOCUSMODE
— Tooltips
— Power BI EcoSystem, Architecture

PHASE 3
Learn Basic & Advanced Charts

— Stacked Charts and Clustered Charts
— Line Charts, Area Charts, Bar Charts
— 100% Stacked Bar & Column Charts
— Map Visuals: Tree, Filled, Bubble
— Cards, Funnel, Table, Matrix
— Scatter Chart: Play Axis, Labels
— Series Clusters & Selections
— Waterfall Chart and ArcGIS Maps
— Info graphics, Icons and Labels
— Color Saturation, Sentiment Colors
— Column Series, Column Axis in Lines
— Join Types: Round, Bevel, Miter

MODULES

— Shapes, Markers, Axis, Plot Area
— Display Units, Data Colors, Shapes
— Series, Custom Series and Legends

PHASE 4
Visual Sync, Grouping

— Slicer Visual: Real-time Usage
— Orientation, Selection Properties
— Single & Multi Select, CTRL Options
— Slicer: Number, Text and Date Data
— Slicer List and Slicer Dropdowns
— Visual Sync Limitations with Slicer
— Disabling Slicers, Clear Selections
— Grouping: Real-time Use, Examples
— Bin Size and Bin Limits (Max, Min)
— Bin Count and Grouping Options

PHASE 5
Hierarchies, Filters

— Creating Hierarchies in Power BI
— Independent Drill-Down Options
— Dependent Drill-Down Options
— Conditional Drilldowns, Data Points
— Drill Up Buttons and Operations
— Expand & Show Next Level Options
— Dynamic Data Drills Limitations
— Show Data and See Records
— Filters: Types and Usage in Real-time
— Visual Filter, Page Filter, Report Filter
— Basic, Advanced and TOP N Filters
— Category and Summary Level Filters

MODULES

— Drill Thru Filters, Drill Thru Reports
— Keep All Filters" Options in Drill Thru
— Cross Report Filters, Include, Exclude

PHASE 6
Bookmarks & Its Options

— Drill-thru Filters, Page Navigations
— Bookmarks: Real-time Usage
— Bookmarks for Visual Filters
— Bookmarks for Page Navigations
— Selection Pane with Bookmarks
— Buttons, Images with Actions
— Buttons, Actions and Text URLs
— Bookmarks View & Selection Pane
— Import & Direct Query with Power BI
— SQL Queries and Enter Data
— Data Modeling, Relations

PHASE 7
Power Query Level 1

— Power Query M Language Purpose
— Power Query Architecture and ETL
— Data Types, Literals and Values
— Power Query Transformation Types
— Table & Column Transformations
— Date, Time and Structured Data
— List, Record and Table Structures
— Power Query Functions, Parameters
— Invoke Functions, Execution Results
— Get Data, Table Creations and Edit
— Merge and Append Transformations

MODULES

MODULES

PHASE 9
DAX Functions - Level 1

— DAX: Importance in Real-time
— Real-world usage of Excel, DAX
— DAX Architecture, Entity Sets
— DAX Data Types, Syntax Rules
— DAX Measures and Calculations
— ROW Context and Filter Context
— DAX Operators, Special Characters
— DAX Functions, Types in Real-time
— Creating, Using Measures with DAX
— Creating, Using Columns with DAX
— Quick Measures and Summaries
— SUM, AVERAGEX, KEEPFILTERS
— Dynamic Expressions, IF in DAX

PHASE 10
DAX Functions - Level 2

— Data Modeling Options in DAX
— Detecting Relations for DAX
— Using Calculated Columns in DAX
— Using Aggregated Measures in DAX
— Working with Facts & Measures
— Modeling: Missing Relations
— Modeling: Relation Management
— CALCULATE Function Conditions
— CALCULATE & ALL Member Scope
— RELATED & COUNTROWS in DAX
— Dynamic Expressions, RETURN
— Date, Time and Text Functions
— Logical, Mathematical Functions
— Running Total & EARLIER Function

MODULES

PHASE 11
DAX Functions - Level 3

- AVERAGEX and AVERAGE in DAX
- KEEPFILTERS and CALCUALTE
- COUNTROWS, RELATED, DIVIDE
- PARALLELPERIOD, DATEDADD
- CALCULATE & PREVIOUSMONTH
- USERELATIONSHIP, DAX Variables
- TOTALYTD, TOTALQTD
- DIVIDE, CALCULATE, Conditions
- IF ELSE THEN Statement
- SELECTEDVALUE, FORMAT
- SUM, DATEDIFF Examples in DAX
- SUM, AVERAGEX, KEEPFILTERS
- TODAY, DATE, DAY with DAX
- Time Intelligence Functions – DAX

PHASE 12
Power BI Cloud - 1

- Power BI Service Architecture
- Power BI Cloud Components, Use
- App Workspaces, Report Publish
- Reports & Related Datasets Cloud
- Creating New Reports in Cloud
- Report Publish and Report Uploads
- Dashboards Creation and Usage
- Adding Tiles to Dashboards
- Pining Visuals and Report Pages
- Visual Pin Actions in Dashboards
- LIVE Page Interaction in Dashboard
- Adding Media: Images, Custom Links

MODULES

PHASE 13
Power BI Cloud - 2

— Dashboards Actions, Report Actions
— Dataset Actions: Create Report
— Share, Metrics and Exports
— Mobile View & Dashboard Themes
— Q & A [Cortana] and Pin Visuals
— Export, Subscribe, Subscribe
— Featured Dashboards and Refresh
— Gateways Configuration, PBI Service
— Gateway Types, Cloud Connections
— Gateway Clusters, Add Data Sources
— Data Refresh: Manual, Automatic
— Dataflows, Power Query Expressions

PHASE 14
Real-Time Project

— Project Requirement Analysis
— Implementing SDLC Phases
— Requirement Gathering, FSA

PART 1

— PBIX Report Design
— Visualizations, Properties
— Analytics and Formatting

PART 2

— Data Modeling, Power Query
— Dynamic Connections, Azure DB
— Parameters and M Lang Scripts

PART 3

— DAX Requirements, Analysis
— Cloud and Report Server
— Project FAQs and Solutions

MODULES

PHASE 15

Projects Coverage

— Bank Customers Analysis Project

— Udemy Data Analysis

— Retail Sales Analysis

— Insurance Project

— IPL Analysis

Special Sessions

— Resume Creation, Review and Feedback

— Understanding the ATS concept

— LinkedIn and Naukri.com optimization

— Interview Questions from Technical and Managerial rounds

— Portfolio Creation

— Assistance in finding the job

— Assignment Practice

— Quiz and Q&A Sessions

Bonus Session

— Will Cover Real Time Scenarios or questions which generally occurs in Project Development.

Add-ons

— One to one doubt clearing session

— Access to additional resources

— Mock Interview sessions

— Job Placement Assistance

— Access to community of Professionals

— Resume review sessions

— Portfolio Management (Showcase for Hiring Managers)

SHUBHAM NAIKWADI

Graphic Designer | Salary: 3,40,000 p.a

SANKET KASTURE

Graphic Designer | Salary: 4,20,000 p.a

GAURAV LONKAR

UX/UI Designer | Salary: 4,80,000 p.a

SHREYAS TAMHANE

UX Designer | Salary 5,20,000 p.a

RAHUL KATHALE

UX/UI Designer | Salary: 12,00,000 p.a

SUHAS DAHALE

UX Designer | Salary 4,00,000 p.a

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