

**DATA
ANALYTICS**

Javalaya:



DATA ANALYTICS

Our Modules

- **Foundations**
- **Programming & Data Manipulation**
- **Business Intelligence & Cloud**
- **Advanced Topics & Projects**

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MODULE 1: Foundations (Weeks 1-4)

Week 1: Excel for Data Analytics (10 Hours)

- Day 1: Introduction to Excel, Data Types, Basic Formulas
- Day 2: Lookup Functions (VLOOKUP, HLOOKUP, XLOOKUP)
- Day 3: Pivot Tables, Data Cleaning
- Day 4: Advanced Excel (Conditional Formatting, Data Validation)
- Day 5: Macros & Automation

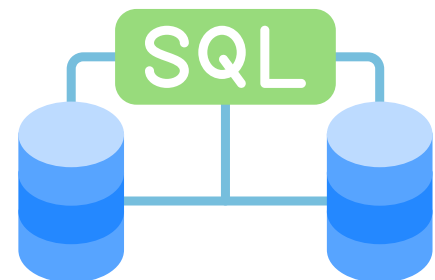


Week 2: Statistics for Data Analysis (10 Hours)

- Day 6: Descriptive Statistics (Mean, Median, Mode, Variance)
- Day 7: Probability Basics (Distributions, Bayes Theorem)
- Day 8: Hypothesis Testing (Z-test, T-test, Chi-square)
- Day 9: Correlation & Regression
- Day 10: ANOVA, Statistical Inference

Week 3: SQL Fundamentals (10 Hours)

- Day 11: Introduction to Databases & SQL
- Day 12: SELECT, WHERE, ORDER BY, GROUP BY
- Day 13: Joins (INNER, LEFT, RIGHT, FULL)
- Day 14: Subqueries, CTEs
- Day 15: Window Functions (ROW_NUMBER, RANK, DENSE_RANK)



Week 4: Advanced SQL & Snowflake (10 Hours)

- Day 16: Stored Procedures, Functions
- Day 17: Indexing, Query Optimization
- Day 18: Introduction to Snowflake
- Day 19: Snowflake Architecture & Data Loading
- Day 20: Snowflake SQL & Performance Tuning



MODULE 2: Programming & Data Manipulation

(Weeks 5-10)

Week 5: Python Basics (10 Hours)

- Day 21: Python Setup, Variables, Data Types
- Day 22: Loops, Functions, Error Handling
- Day 23: Lists, Tuples, Dictionaries
- Day 24: File Handling (CSV, JSON)
- Day 25: OOP Basics



Week 6: Python for Data Analysis (Pandas & NumPy) (10 Hours)

- Day 26: NumPy Arrays & Operations
- Day 27: Pandas DataFrames (Filtering, Grouping)
- Day 28: Data Cleaning (Missing Values, Outliers)
- Day 29: Merging & Reshaping Data
- Day 30: Time Series Analysis



Week 7: Data Visualization (Matplotlib & Seaborn) (10 Hours)

- Day 31: Matplotlib Basics (Line, Bar, Scatter Plots)
- Day 32: Seaborn (Heatmaps, Boxplots, Violin Plots)
- Day 33: Customizing Visualizations
- Day 34: Interactive Plots (Plotly)
- Day 35: Dashboarding with Python



Week 8: Advanced Python (APIs, Web Scraping) (10 Hours)

- Day 36: Working with APIs (Requests, JSON)
- Day 37: Web Scraping (BeautifulSoup, Scrapy)
- Day 38: Automation with Python
- Day 39: Python-SQL Integration (SQLAlchemy)
- Day 40: Python-Snowflake Integration



MODULE 3: Business Intelligence & Cloud (Weeks 9-14)

Week 9: Power BI Basics (10 Hours)

- Day 41: Introduction to Power BI
- Day 42: Data Loading & Transformation (Power Query)
- Day 43: DAX Basics (Calculated Columns, Measures)
- Day 44: Advanced DAX (Time Intelligence, Filter Context)
- Day 45: Building Dashboards



Power BI

Week 10: Advanced Power BI (10 Hours)

- Day 46: Power BI Service (Publishing, Sharing)
- Day 47: Row-Level Security
- Day 48: Power BI & Python Integration
- Day 49: Power BI Best Practices
- Day 50: Case Study (End-to-End Dashboard)

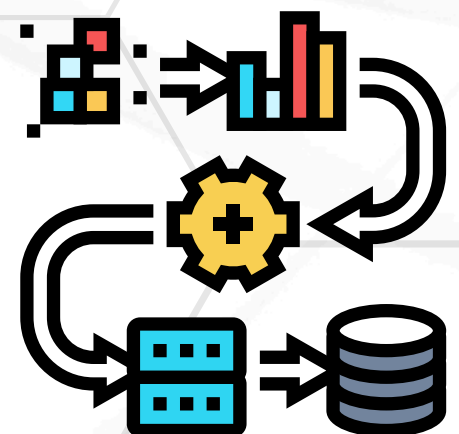


Week 11: Snowflake Deep Dive (10 Hours)

- Day 51: Snowflake Storage & Compute
- Day 52: Snowflake Clustering & Optimization
- Day 53: Snowflake Security & RBAC
- Day 54: Snowflake Streams & Tasks
- Day 55: Snowflake with Python & Power BI

Week 12: ETL & Data Pipelines (10 Hours)

- Day 56: Introduction to ETL
- Day 57: Apache Airflow Basics
- Day 58: Building Data Pipelines
- Day 59: Snowflake Data Pipelines
- Day 60: Monitoring & Logging



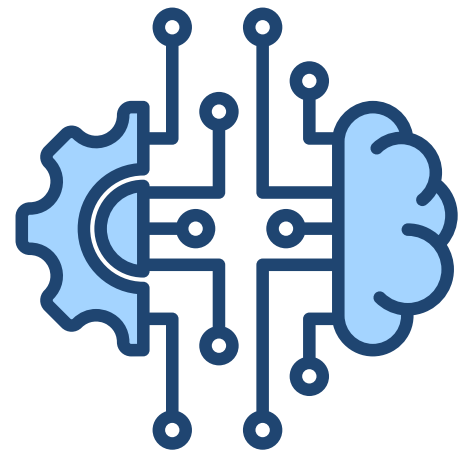
MODULE 4: Advanced Topics & Projects

Week 13: Machine Learning Basics (10 Hours)

- Day 61: Introduction to ML (Supervised vs Unsupervised)
- Day 62: Linear Regression
- Day 63: Logistic Regression
- Day 64: Decision Trees & Random Forest
- Day 65: Model Evaluation (Accuracy, Precision, Recall)

Week 14: Big Data & Cloud (10 Hours)

- Day 66: Introduction to Big Data (Hadoop, Spark)
- Day 67: PySpark Basics
- Day 68: AWS/GCP Basics for Data Analytics
- Day 69: Data Lakes vs Data Warehouses
- Day 70: Snowflake vs Redshift vs BigQuery



THANK YOU

Contact Us

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