

Complete Internship Guide: From Data to Dashboard

1. Python (Basic)

Learning Path:

- Introduction to Python & Setup
- Data Types, Variables & Operators
- Control Flow (Loops & Conditional Statements)
- Functions & Modules
- File Handling & Exception Handling

Projects:

1. **Simple ChatBot (Rule-Based)**
Skills: Conditionals, String handling
2. **Number Guessing Game**
Skills: Random, Loops, Conditionals
3. **Password Generator**
Skills: Random, String module, List comprehension
4. **Rock Paper Scissors Game**
Skills: Random, Conditionals
5. **QR Code Generator**
Skills: Variables, functions, and input handling

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

Mode of Training: Online & Offline

2. Python for Data Science

Learning Path:

- Introduction to Data Science with Python
- Data Manipulation with NumPy
- Data Analysis with Pandas
- Data Visualization with Matplotlib
- Advanced Visualization with Seaborn

Projects:

1. **Sales Report Generator**
Skills: Pandas and Matplotlib
2. **Netflix Data Analysis**
Skills: Pandas, Numby, Matplotlib, EDA
3. **IPL Data Analysis & Player Stats**
Skills: Pandas, Matplotlib, EDA
4. **Retail Store Sales Forecasting (EDA)**
Skills: Pandas, Numby, Matplotlib, EDA
5. **Top 100 Movies Dataset Visualization**
Skills: Pandas and Matplotlib
6. **Electric Vehicle Sales Data Study**
Skills: Pandas, Numby, Matplotlib

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

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3. Advanced Excel

Learning Path:

- Advanced Formulas & Functions
- Data Validation & Conditional Formatting
- Pivot Tables & Pivot Charts
- Dashboard Design & Data Visualization
- Power Query & Data Cleaning Tools

Projects:

1. Sales Tracker
2. Budget Planner
3. Financial Statement Analyzer
4. Employee Payroll Sheet
5. Business KPI Dashboard
6. HR Dashboard
7. Online Course Progress Tracker
8. Sales Funnel Analysis
9. Event Planning Budget Sheet

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

Mode of Training: Online & Offline

4. PowerBI

Learning Path:

- Getting Started with Power BI
- Data Transformation using Power Query
- Data Modeling & Relationships
- DAX (Data Analysis Expressions)
- Report Building & Dashboard Design

Projects:

1. Monthly Sales Trend Analysis
2. Regional Sales Comparison
3. Employee Attendance Dashboard
4. Social Media Metrics Dashboard
5. E-commerce Sales Insights
6. Campaign Performance Tracker
7. Survey Analysis Report
8. Government Budget Allocation Tracker

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

Mode of Training: Online & Offline

5. Tableau

Learning Path:

- Introduction to Tableau
- Data Preparation & Cleaning
- Visual Analytics & Charting
- Dashboards & Storytelling
- Publishing, Sharing & Best Practices

Projects:

1. Customer Segmentation Dashboard
2. Marketing ROI Dashboard
3. Attrition and Retention Analysis
4. Team Performance Tracker
5. Course Enrollment Trends
6. Population Growth Dashboard
7. School/College Performance Analysis

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

Mode of Training: Online & Offline

6. Database for SQL (MYSQL)

Learning Path:

- Introduction to Databases & MySQL
- Data Types, Constraints & Table Operations
- SQL Queries – CRUD Operations
- Joins, Subqueries & Aggregation
- Advanced SQL Concepts

Projects:

1. Library Management System
2. Personal Finance Tracker
3. Bus/Train Ticket Booking Database
4. Online Movie Ticket System
5. Restaurant Billing System
6. Hospital Management with Departments & Specializations
7. Banking System with Transactions & Audit Logs
8. Insurance Policy & Claims Database

Internship Duration: 10 days to 1 month

Timing: Flexible & Per day 2 Hour

Mode of Training: Online & Offline