**Proposal for 5-Day Data Analysis Bootcamp (Technical Track)**

**Submitted by:** Saiyam Tuteja  
**Subject:** Data Analysis Bootcamp (Excel, Power BI, and SQL)  
**Duration:** 5 Days  
**Mode:** Offline/In-person

**Introduction**

The 5-Day Data Analysis Bootcamp (Technical Track) is designed for students and professionals from technical backgrounds, such as B.Tech, BCA, MCA, and other IT-related fields. The focus will be on advanced data handling, automation, and deep analytical techniques using Microsoft Excel, Power BI, and SQL.

**Objectives**

By the end of this bootcamp, participants will:

* Master advanced functions in Excel for data analysis.
* Learn data modeling, transformation, and visualization in Power BI.
* Retrieve, manipulate, and optimize datasets using SQL.
* Implement data-driven problem-solving techniques.
* Work on hands-on projects and real-world datasets.

**Day-wise Agenda**

**Day 1: Excel for Data Analysis (Technical Focus)**

* Advanced Excel formulas and functions.
* Data cleaning techniques (Text functions, Logical functions).
* Working with named ranges and dynamic arrays.
* Pivot Tables and Pivot Charts for large data processing.
* Data visualization and dashboard creation.

**Day 2: Advanced Excel & Introduction to Power BI**

* Lookup functions: VLOOKUP, HLOOKUP, XLOOKUP.
* Advanced data validation and conditional formatting.
* Power BI introduction and interface walkthrough.
* Importing, cleaning, and transforming data in Power BI.

**Day 3: Power BI for Technical Data Analysis**

* Data modeling and relationships in Power BI.
* Advanced DAX (Data Analysis Expressions) for calculations.
* Interactive dashboard creation with real-time data.
* Best practices for Power BI report optimization.

**Day 4: SQL for Data Manipulation & Retrieval**

* SQL fundamentals: SELECT, WHERE, ORDER BY, GROUP BY, HAVING.
* Joins and subqueries for complex data extraction.
* Data manipulation using UPDATE, DELETE, and INSERT.
* Using SQL with Excel and Power BI for real-world applications.

**Day 5: Final Project & Case Study Implementation**

* Hands-on project integrating Excel, Power BI, and SQL.
* Problem-solving using real-world datasets.
* Group presentations and feedback sessions.
* Certification of Completion ceremony.

**Target Audience**

* B.Tech, BCA, MCA, and IT-related professionals.

**Tools & Software Requirements**

* Microsoft Excel (2016 or later / Office 365)
* Power BI Desktop
* SQL Database (MySQL/PostgreSQL or SQL Server)

**Evaluation & Certification**

Participants will be evaluated based on:

* Hands-on assignments and project completion.
* Engagement in discussions and quizzes.
* Final project presentation.

Upon successful completion, participants will receive a **Certificate of Completion**.

**Conclusion**

This bootcamp offers a comprehensive learning experience in data analysis, equipping technical professionals with in-demand analytical skills for industry applications.

For further details and registration, please contact [Your Contact Information].

**Prepared by:**  
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