



Department of Artificial Intelligence and Machine Learning

Data Analysis with Excel



By. Prof. Mohammad Tahir Mirji



Dept of AIML



ACHARYA

Dept of AIML

Overveiw

Acharya stands as a beacon of excellence in higher education, boasting a legacy of academic distinction since its establishment in 1990. We offer a transformative educational experience, fostering holistic development, nurturing innovation and providing world-class facilities to ensure an enriching journey for our students.

11

Institutes

15

Research
Centres

50

Academic
Streams

100+

Programmes

120 Acres

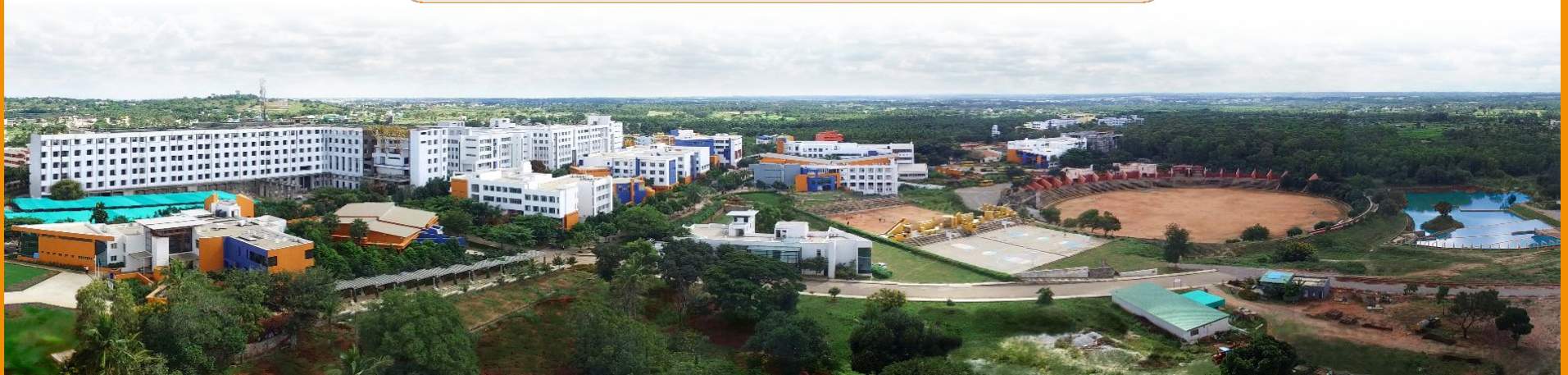
State-of-the-art
campus

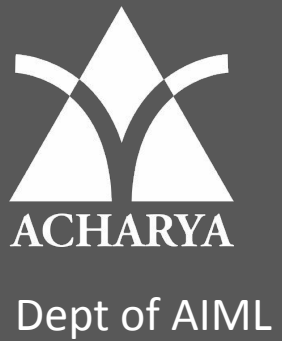
75+

Nationalities

12000+

Students





11 Institutions, Infinite Possibilities

We provide 100+ programs across 50 academic streams.



Data Analytics with Excel Introduction

Data analysis is the process of inspecting, cleaning, transforming, and modeling data to discover useful information, draw conclusions.

Where do we use

Sales Performance Tracking

Analyzing monthly sales data to identify top-performing products and regions.

Using Pivot Tables to summarize sales by category, region, or salesperson.

Budgeting and Financial Forecasting

Creating and managing budgets for personal or business finances.

Performing "What-If" analysis to project future financial outcomes based on different scenarios.

Where do we use

Customer Data Management

Organizing and analyzing customer data to identify buying patterns and preferences.

Segmenting customers based on demographics and purchase history for targeted marketing.

Project Management

Tracking project timelines, tasks, and resources.

Using Gantt charts and timelines to monitor project progress and deadlines.

Common Use Cases in MS Excel



Education



Business



Goal Setting and Planning



Business Owners



Manage Household Expenses



Data Analysis/
Data Science



Daily Progress Report



Career Development

Why MS Excel is Important in Business



Common Use Cases in MS Excel



Education



Business



Goal Setting and Planning



Business Owners



Manage Household Expenses



Data Analysis/
Data Science



Daily Progress Report



Career Development

MS EXCEL SKILL SET



Task automation using Visual Basic Applications (VBA) and Macros



Building Formulas to Simplify the Calculations



Creating Dynamic Reports With PivotTables



Building Charts and Graphs



Advanced Conditional Cell Formatting and Dashboard Building