



TRAINING COMPLETION REPORT

Submitted By Elysium Academy,
CIT Nagar, Chennai

We are pleased to submit the training report for the “DATA ANALYSIS” certification Program which was successfully completed at MAHALAKSHMI TECH CAMPUS conducted from 9th August 2025 to 20th September 2025

Program Details:

- Program Name: “DATA ANALYSIS
- Duration: 40 hours
- Number of Students: 09
- Training Mode: At College laboratory
- **Attendees: III semester students**

Training Outcome

- Students developed **strong foundational and practical skills** in data analysis.
- Hands-on experience with **Excel, Python, SQL, and visualization tools**.
- Ability to clean, analyze, and visualize real-world datasets.
- Improved analytical thinking and data-driven decision-making skills.
- Successfully completed a **mini project and a final capstone project**.
- High student engagement and positive classroom feedback

Topics Covered

Module 1: Introduction to Data Analysis (3 Hours)

- What is Data Analysis?
- Role & Responsibilities of a Data Analyst
- Types of Data: Structured vs Unstructured
- Data Analysis Lifecycle (Collect → Clean → Analyze → Visualize → Interpret)
- Overview of Industry Tools & Career Path

Module 2: Excel for Data Analysis (8 Hours)

- Excel Interface, Data Entry & Formatting
- Basic & Advanced Formulas
- Functions: SUM, AVERAGE, COUNTIF, IF, VLOOKUP
- Sorting, Filtering & Conditional Formatting
- Hands-on Exercises with Real-Time Data

Module 3: Basics of Statistics (5 Hours)

- Descriptive Statistics: Mean, Median, Mode
- Range, Variance & Standard Deviation
- Understanding Data Distributions
- Importance of Statistics in Decision Making
- Practical Statistical Analysis Using Excel / Python

Module 4: Python for Data Analysis (9 Hours)

- Introduction to Python & Jupyter Notebook
- Variables, Data Types, Loops & Conditional Statements
- Python Libraries: Pandas, NumPy, Matplotlib, Seaborn
- Reading CSV Files & Data Cleaning Techniques
- Filtering, Sorting & Transforming Data
- Data Visualization Using Python
- Mini Hands-on Analysis Project

Module 5: SQL for Data Extraction (7 Hours)

- Introduction to Databases & Relational Concepts
- SQL Queries: SELECT, WHERE, ORDER BY
- GROUP BY & HAVING Clauses
- Aggregate Functions: COUNT, SUM, AVG, MIN, MAX
- JOINS: INNER JOIN & LEFT JOIN

- Hands-on SQL Practice with Sample Dataset

Module 6: Data Visualization & Storytelling (4 Hours)

- Importance of Data Visualization
- Choosing the Right Chart
- Visualization Using: Python (Matplotlib, Seaborn)
- Storytelling with Data & Business Insights

Module 7: Data Cleaning & Exploratory Data Analysis (EDA) (2 Hours)

- Handling Missing Values
- Removing Duplicates & Handling Outliers
- Data Type Conversion
- Quick EDA Techniques

Module 8: Final Project (2 Hours)

- End-to-End Data Analysis Project
- Data Cleaning, Analysis & Visualization
- Final Presentation

Trainer Details



- Resource Person : Mr.Manoj.D

ELYSIUM ACADEMY, CIT Nagar, Chennai
Trainer Mar 2021 – Present

Teaching programming languages such as C, Java, and Python with a focus on hands-on learning.

Actively involved in real-time Machine Learning and Web Development projects.

EDUCATION

B.TECH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING 2022

St. Joseph's College of Engineering

Cumulative GPA: 9.2 / 10.0

SKILLS

Programming C, C++, Python

Web HTML, CSS

Frameworks Pandas, NumPy, Django

Tools Power BI, Tableau, SQL

ML Tools Streamlit, TensorFlow

CERTIFICATIONS

Winner – AI VERNUS Event for developing images using AI tools

ATTENDANCE SHEET - DATA ANALYSIS							
S.no	Student name	9.08.25	23.08.25	30.08.25	6.09.25	13.09.25	20.09.25
1	MAHASRI.P	P	P	P	P	P	P
2	KEERTHIKA.M	P	P	P	P	P	P
3	KOWSIKA.R	P	P	P	P	P	P
4	JEEVITHA.V	P	P	P	P	P	P
5	ANANDHA KIRUTHIKA.J	P	P	P	P	P	P
6	DEEP SREE PRATIBHA.P	P	P	P	P	P	P
7	NIRMALA.K	P	P	P	P	P	P
8	MANISHA.C	P	P	P	P	P	P
9	JAISHREE	P	P	P	P	P	P

The students worked on the below given projects which were evaluated and the total marks are provided below

- 1.PYTHON TASK**
- 1. NUMPY OPERATIONS**
- 2. PANDAS**
- 3. MATPLOTLIB**
- 4. FINAL PROJECT**

Student name	EVALUATION(100)
MAHASRI.P	90
KEERTHIKA.M	90
KOWSIKA.R	90
JEEVITHA.V	90
ANANDHA KIRUTHIKA.J	100
DEEP SREE PRATIBHA.P	90
NIRMALA.K	100
MANISHA.C	90
JAISHREE	100

We sincerely thank the College, Principal and the Heads of the Department for giving us this opportunity in guiding their students to increase their coding proficiency, stay updated with the latest technologies and enhance team-work and collaboration in the present emerging Information Technology industry.

Kanagalakshmy.K

**Academy Coordinator
Elysium Academy
Chennai**

Manoj.D

**Technical trainer & Resource person
Elysium Academy
Chennai**