

Duration  
4 months

# Internship in Data Analytics & Machine Learning

At Knovista, we empower the next generation of tech professionals by offering comprehensive education and job opportunities in the fields of data analytics and machine learning.

# Why Become a Data Analyst?

- Explosion of data in all industries
- Demand for data skills: Excel, SQL, Power BI, Python, Machine Learning
- Drive decision-making in businesses using data insights

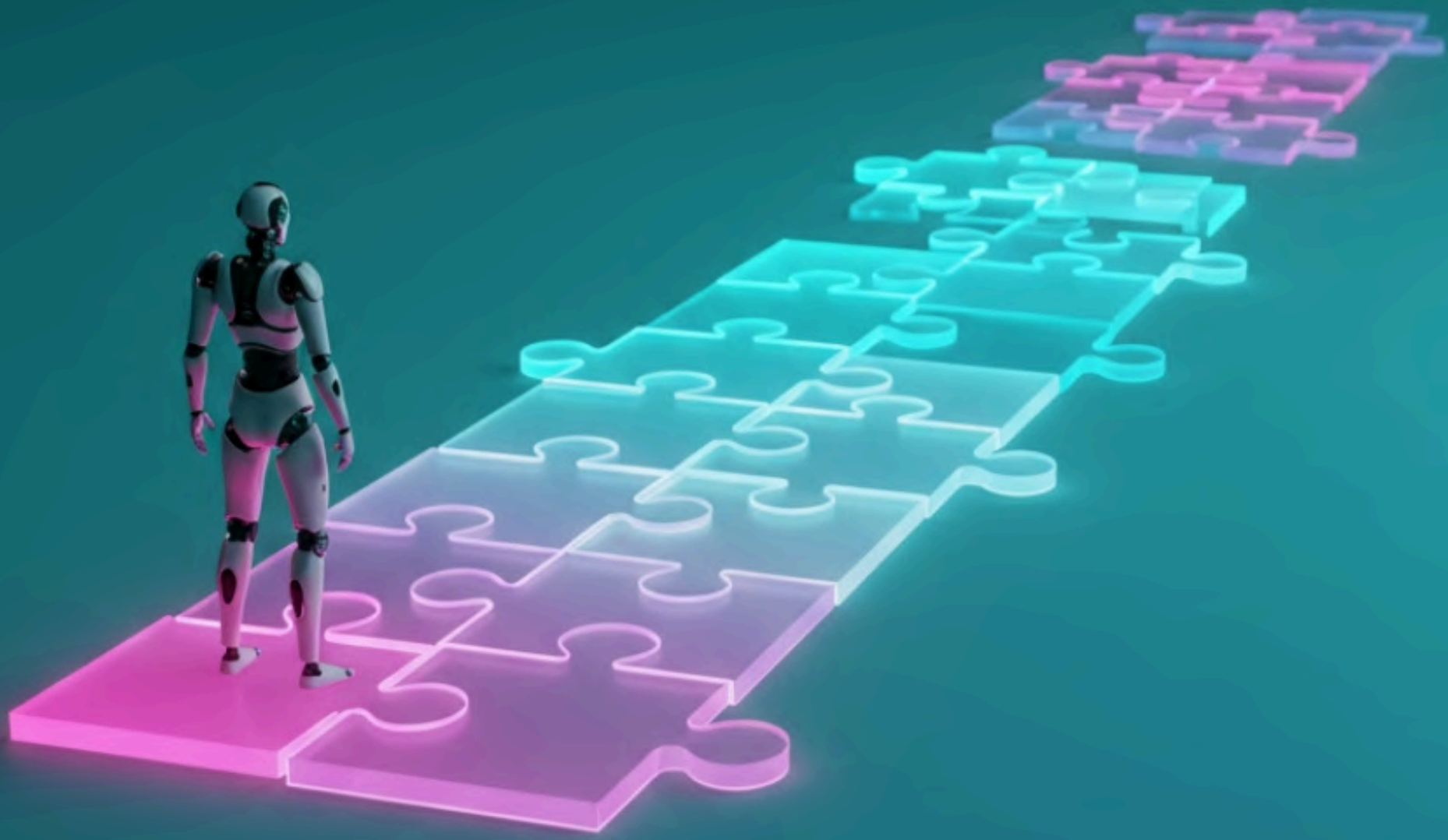


# What Makes Our Program Unique.

## Your Advantage with Us.

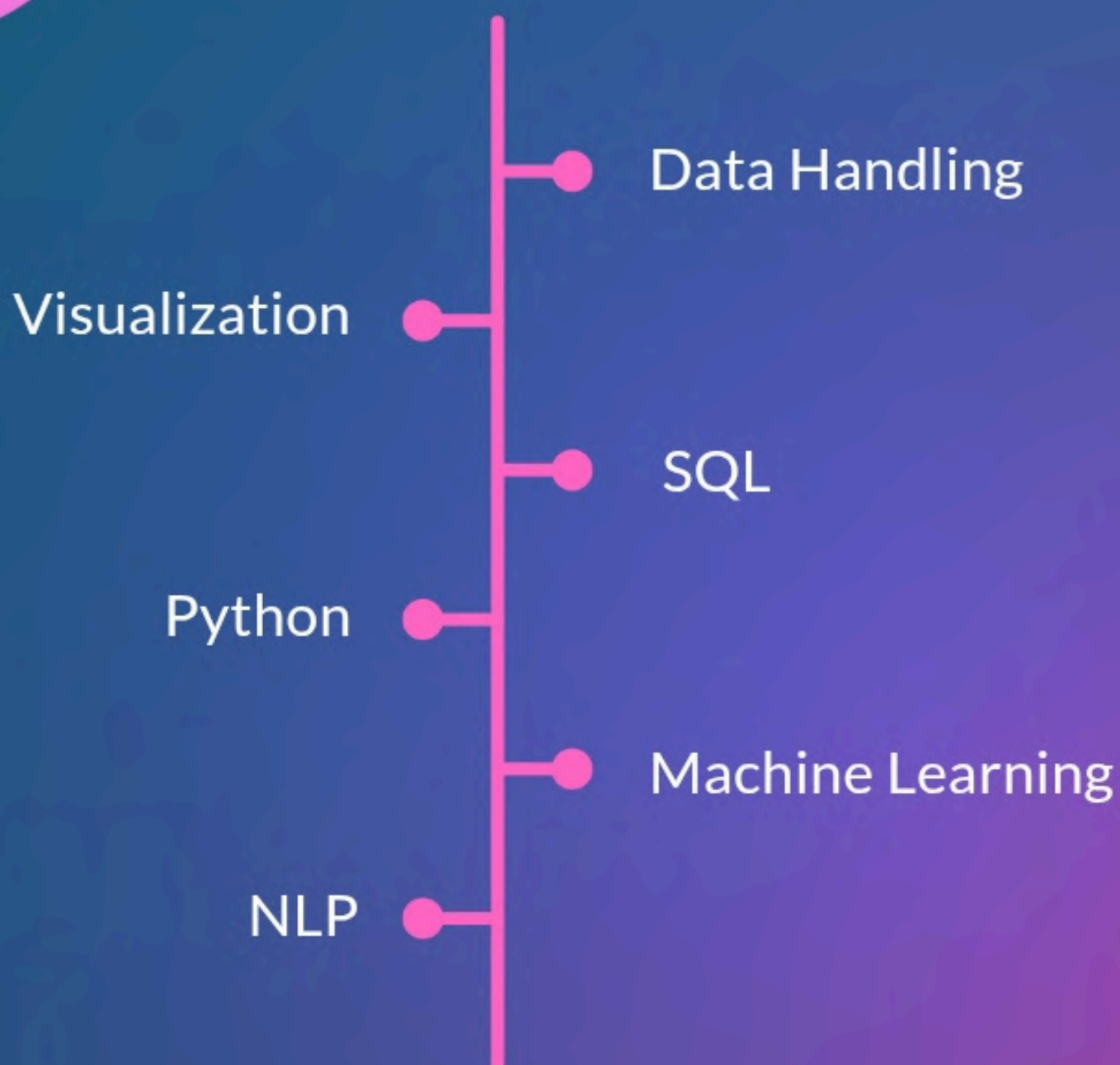
- 8 Core Technical Modules
- Industry-relevant Projects
- 15+ Practical Assignments
- Global Tools Certification
- Internship & Career Mentorship





# Roadmap to Mastery.

## Milestones.



# Who Should Enroll?

## Ideal for.

- Fresh Graduates
- Professionals Pivoting into Data Roles
- Entrepreneurs Leveraging Data for Growth
- Analysts Upskilling for Advanced Tools



# Module Overview

## Your Learning Modules



Excel Mastery



Power BI Visualization



SQL Database Management



Tableau Dashboarding



Natural Language Processing (NLP)



Machine Learning Foundations



Exploratory Data Analysis



Python Programming



# Mastering Data with Excel

## Excel Basics to Advanced Skills

Learn essential functions, formulas, data entry, and advanced tools like VLOOKUP, INDEX-MATCH, and conditional formatting.

## Pivot Tables and Charts

Master the creation and customization of pivot tables and charts for dynamic data analysis.

## Excel Dashboards

Design interactive dashboards using slicers, data validation, charts, and visual elements to summarize key insights.

## Mini-Project: Dashboard Creation

Apply your knowledge by completing a hands-on project to build a comprehensive Excel dashboard.



# Power BI for Visual Storytelling

## Data Transformation

involves cleaning, shaping, and preparing data using Power BI tools like Power Query for accurate analysis.

## Interactive Dashboards

allow users to explore data through dynamic visuals, filters, and slicers to uncover real-time insights.

## Data Transformation

involves creating a comprehensive, interactive report that integrates data sources to support strategic business decisions



# Commanding Data with SQL

## Database Fundamentals

Explore how databases work—learn about tables, keys, and how data is structured and related. Build a strong foundation to confidently navigate any data system.

## Queries, Joins, Subqueries

Write SQL queries to search, filter, and combine data from multiple tables. Master techniques to answer complex questions using joins and subqueries.

## Project: SQL Database Management

Put your skills into practice by creating and managing a complete SQL database. Tackle real-world scenarios to solidify your understanding and boost your confidence.

# Tableau – Data at a Glance

## Dynamic Dashboards

In Tableau allow users to interact with data in real time through filters, actions, and parameters, making analysis more flexible and intuitive.

## Advanced Visualizations

include features like dual-axis charts, heat maps, and custom calculations to uncover deeper insights.

## Project: The Sales Dashboard Creation

involves designing a visual interface to track key metrics like revenue, profit, and region-wise performance

# Python – Speak the Language of Data

## Programming Fundamentals

Programming fundamentals include basic concepts like variables, loops, conditionals, and functions. These are the essential building blocks for writing effective Python code.

## Data Structures

Data structures such as lists, dictionaries, sets, and tuples help store and manage data efficiently. They are vital for organizing information and building scalable programs.

## Libraries: NumPy, Pandas

NumPy is used for high-performance numerical computations and array operations. Pandas provides powerful tools for data analysis and manipulation through DataFrames.

## Practical Assignments in Python

These are hands-on coding exercises that apply programming concepts to real-world tasks.



# Exploring Data with NumPy & Pandas

## Array Manipulation

Using NumPy to reshape, slice, combine, or filter arrays for efficient numerical computations.

## Data Cleaning

Using Pandas to handle missing values, fix data types, remove duplicates, and standardize formats.

## Data Aggregation

Summarizing data using functions like `groupby()`, `mean()`, and `sum()` to extract insights.

## Task: Dataset Cleaning & Analysis

Apply cleaning and aggregation techniques on a dataset to prepare it for analysis and draw meaningful conclusions.

# Machine Learning Demystified

## Supervised and Unsupervised Learning

Supervised learning uses labeled data to train models (e.g., predicting prices), while unsupervised learning finds patterns in unlabeled data (e.g., grouping customers).

## Model Evaluation

The process of measuring a model's performance using metrics like accuracy, precision, recall, and error rates.

## Regression, Classification, Clustering

Regression predicts continuous values (e.g., temperature), classification predicts categories (e.g., spam or not), and clustering groups similar data points without labels.

## Project: Predictive Modeling using Real Data

A practical project that builds a model to make predictions from actual datasets, applying learned ML techniques.



# Natural Language Processing (NLP)

## Text Mining Techniques

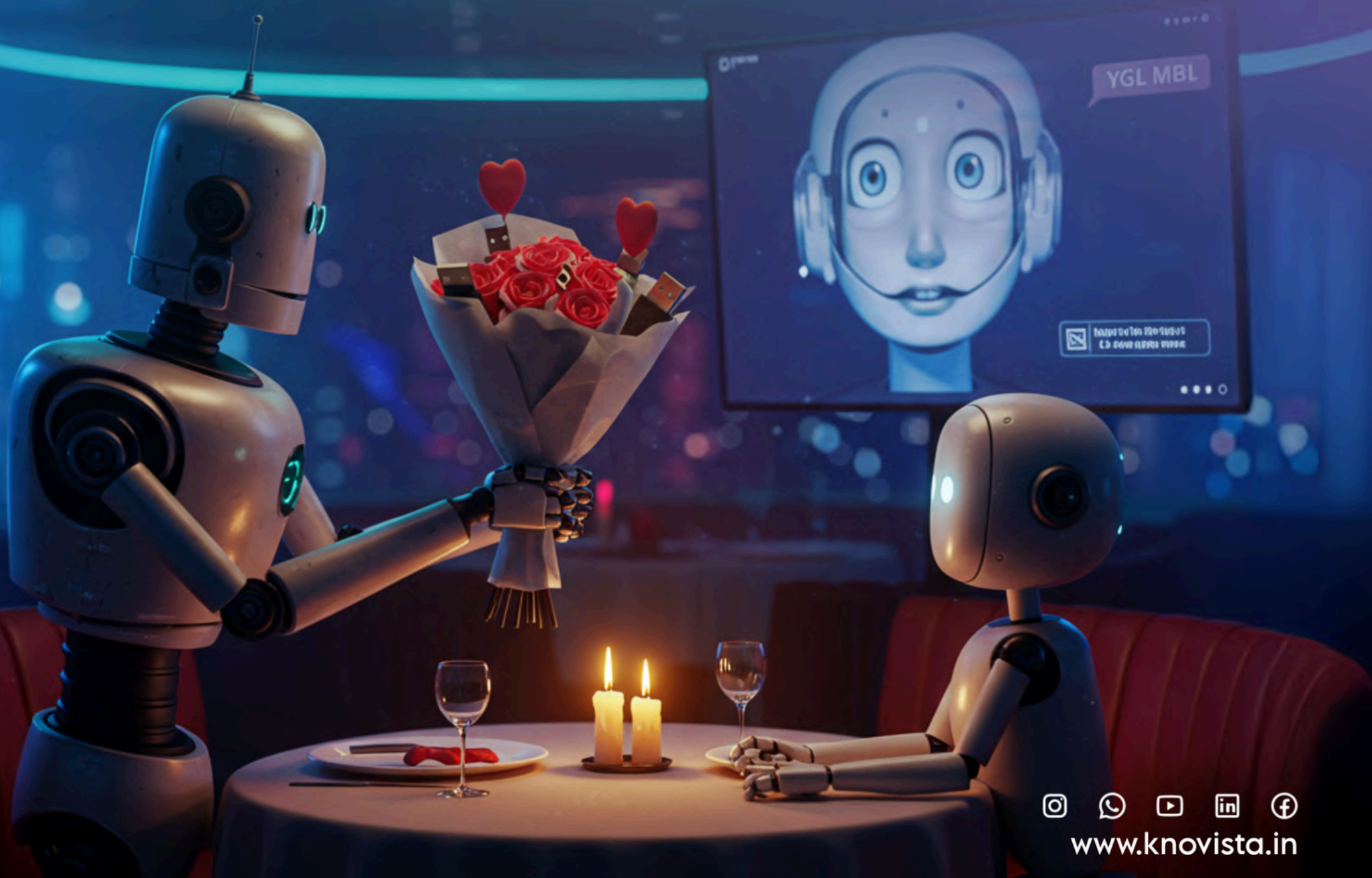
Methods to extract useful information and patterns from text data.

## Sentiment Analysis

Process of identifying and categorizing emotions or opinions in text.

## Project: Review Analysis & Sentiment Detection

A practical task to analyze reviews and detect the sentiment expressed.



# Hands-on Learning

Practice What You Learn

2+ ASSIGNMENTS

Amazon Sales Forecasting

Zomato/Swiggy Review Analysis

Blinkit Delivery Performance Dashboard

Sentiment Analysis on Customer Reviews

4+ PROJECTS



# Certifications You Earn

## Recognized Skills

- Microsoft (Excel, Power BI)

- Tableau Certifications

- SQL Certification

- Python for Data Analytics  
Certificate

# The Complete Program Snapshot

- 4 Months Learning
- Internship Included
- Global Certifications
- Final Capstone Project



# Placement Preparation

Unlock Your Career

- Resume Building Workshops
- Mock Interviews
- Dedicated Placement Support
- Partnerships with Top Companies

# HOW TO ENROLL

- ✓ Application process
- ✓ Enrollment Timeline
- ✓ Contact Advisor Support

# Let's Connect

Your Data Journey  
Begins Here

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