





# **Become a Data Analyst**

# **Programming Basics**

- ✓ Introduction to Python
- ✓ Variables & Data Types
- ✓ Operators & Conditional Statements
- ✓ Functions, Classes
- ✓ Strings
- ✓ Lists
- ✓ Dictionaries
- ✓ Data Science (Numpy, Pandas, Matplotlib)

# **Intro to Business Case Studies**

# **Mathematics for Analytics**

- Probability
- Applied Statistics

#### **Descriptive Analytics**

- Exploration
- Data Cleaning
- Pre-Processing
- Visualisation

#### **Predictive Analysis**

- Supervised Learning
- Ensemble Techniques

# **Database Management**

- SQL
- Schema Design
- Data Modelling

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# Machine Learning

- Unsupervised Learning
- Feature Engineering
- Reinforcement Learning
- Time Series Analysis

# Analytics with Excel / Power BI

- Analytics with Excel and Power BI
- Spreadsheets and g-spread library
- Power BI
- Dashboards

# **Data Management and Warehousing**

- NoSQL Databases
- JSON Handling
- Extract-Transform-Load (ETL)
- Big Data / Cloud