**Required Skills**

Data Collection

* Using APIs to collect jobs data and storing the data in an Excel spreadsheet (Python libraries: request, pandas, and openpyxl).
* Using web scraping to retrieve data from a website and saving the data into a CSV file (Python libraries: request, pandas, and BeautifulSoup).
* Exploring a data set by loading the dataset, finding the number of rows and columns, and identifying the data types of each column (Python library: pandas, pandas methods (read\_csv(), head(), shape, dtypes)).

Data wrangling

* Finding and removing duplicated rows (Python library: pandas, pandas methods (duplicated(), drop\_duplicates())).
* Finding and imputing (replacing) missing values with other meaningful values (Python library: pandas, pandas methods (value\_counts(), idxmax(), isna()).
* Normalizing relevant columns.

Exploratory Data Analysis (EDA)

* Determining how data is distributed (histogram plot).
* Finding the outliers in a dataset and removing them (calculate Q1, Q2 (median), Q3, and Inter Quartile Range (IQR)).
* Finding the correlation among features in the dataset (Python library: pandas, pandas method (.corr())).

Data Visualization

* Using SQL knowledge.
* Using Python libraries (matplotlib.pyplot, seaborn, pandas) to plot graphs and visualize distribution (histogram, boxplot), relationship (scatter plot, bubble plot), composition (pie chart, stacked chart), and comparison (line chart, bar chart) of data in the dataset.

Building dashboard

* Using IBM Cognos Analytics to make various charts and assemble a dashboard.

Presentation of Findings

* Final Presentation in PowerPoint.