

Course Name

Certificate in Advanced Data Analysis

Sector Name

Digital Transformation and Innovation

Document Type

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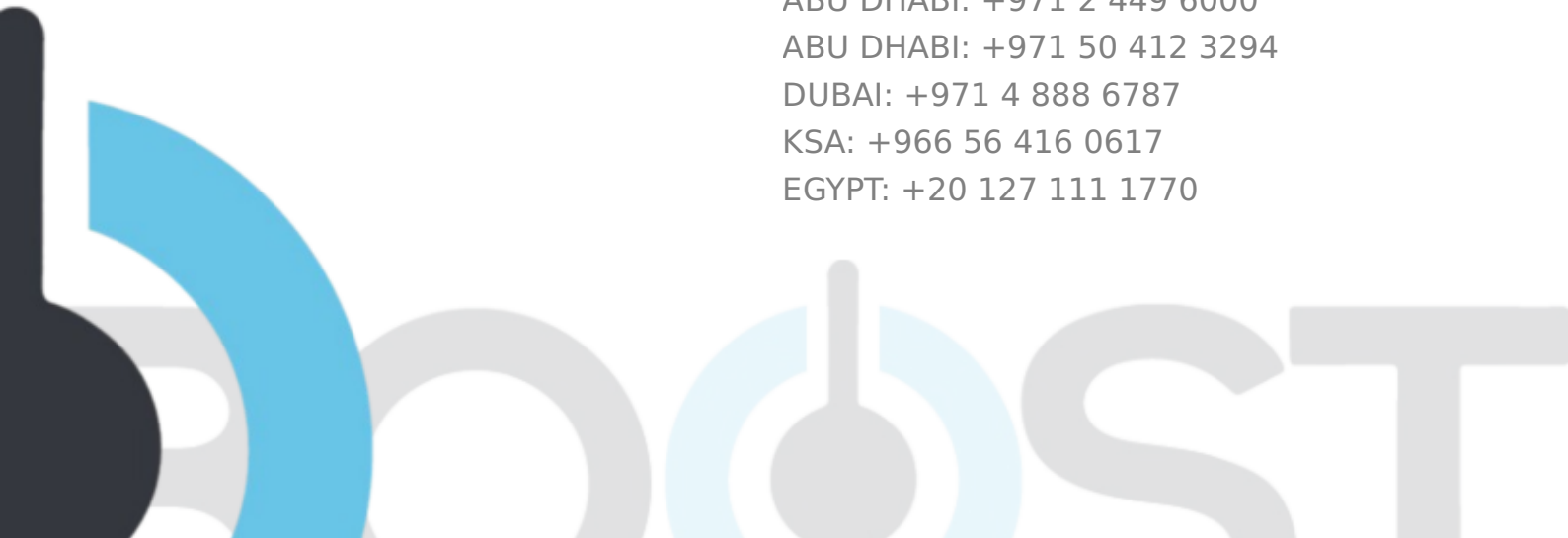
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Certificate in Advanced Data Analysis

Course Introduction

The **Certificate in Advanced Data Analysis** course provides an in-depth exploration of advanced data analysis techniques, focusing on how to extract actionable insights from complex datasets.

Delivered by **BOOST**, this course covers a range of statistical methods, machine learning algorithms, and data visualization techniques to help professionals harness the power of data for strategic decision-making.

Participants will learn to apply advanced analytical tools to identify patterns, predict trends, and optimize business processes across various industries. The course emphasizes hands-on experience, equipping participants with practical skills to analyze big data, implement machine learning models, and interpret results for business and operational improvements.

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Target Audience

- ✓ Data analysts and data scientists
- ✓ Business analysts and professionals involved in data-driven decision-making
- ✓ Managers and decision-makers looking to leverage data for strategic planning
- ✓ Anyone seeking to deepen their understanding of advanced data analysis techniques

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Learning Objectives

- ✓ Understand and apply advanced statistical methods for data analysis.
- ✓ Utilize machine learning algorithms to solve complex business problems.
- ✓ Analyse large datasets to identify trends, patterns, and insights.
- ✓ Develop predictive models and forecasts based on data.
- ✓ Use data visualization tools to communicate analytical findings effectively.
- ✓ Implement best practices for cleaning, transforming, and analyzing big data.

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Course Outline

✓ 01 DAY ONE

Introduction to Advanced Data Analysis and Statistical Methods

- ✓ Overview of data analysis in the modern business landscape
- ✓ Key concepts in statistics: Descriptive statistics, inferential statistics, and hypothesis testing
- ✓ Advanced statistical methods: ANOVA, regression analysis, and multivariate analysis
- ✓ Introduction to probability theory and its application in data analysis
- ✓ Hands-on practice: Conducting statistical analyses with real-world datasets
- ✓ Interpreting statistical results and drawing actionable insights

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Course Outline

✓ 02 DAY TWO

Data Preparation, Cleaning, and Transformation

- ✓ The importance of data cleaning and preprocessing in analysis
- ✓ Techniques for handling missing data, outliers, and data inconsistencies
- ✓ Data transformation methods: Normalization, scaling, and encoding
- ✓ Feature engineering and selection for improved model performance
- ✓ Tools and techniques for automating data cleaning processes

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Course Outline

✓ 03 DAY THREE

Machine Learning Algorithms for Advanced Analysis

- ✓ Introduction to machine learning: Supervised vs. unsupervised learning
- ✓ Key machine learning algorithms: Linear regression, decision trees, random forests, and support vector machines
- ✓ Building and evaluating predictive models using machine learning
- ✓ Model optimization: Hyperparameter tuning and cross-validation
- ✓ Evaluating model performance: Accuracy, precision, recall, and F1 score

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Course Outline

✓ 04 DAY FOUR

Time Series Analysis and Predictive Modelling

- ✓ Introduction to time series analysis and forecasting
- ✓ Techniques for analysing time-based data: ARIMA, exponential smoothing, and seasonal decomposition
- ✓ Predictive modelling for forecasting trends and patterns
- ✓ Assessing and improving the accuracy of predictive models
- ✓ Exercise: Building and evaluating a predictive model for future trends

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Course Outline

✓ 05 DAY FIVE

Data Visualization and Communicating Analytical Insights

- ✓ Importance of data visualization in presenting analytical results
- ✓ Advanced data visualization techniques: Heatmaps, scatter plots, and interactive dashboards
- ✓ Tools for creating effective visualizations: Power BI, Tableau, and Python (Matplotlib/Seaborn)
- ✓ Best practices for presenting complex data insights to stakeholders

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
May 10, 2027	May 14, 2027	5 days	5950.00 \$	USA , Los Angeles
Nov. 9, 2026	Nov. 13, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Dammam

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