



ACCA



**CHECKLIST
FOR DATA ANALYTICS
AND VISUALISATION**

Think Ahead

Checklist for Data Analytics and Visualisation

Key Areas / Course Name	Content	Depth Rating*
ACCA Resources		
ACCA Certificate in Data Analytics	<p>The CertDA will teach learners:</p> <ul style="list-style-type: none"> • How to use commercial awareness to articulate business questions • Identify and manipulate relevant data and deeply analyse it by applying appropriate techniques • How findings from analysis can and should be visualised and communicated, enabling relevant stakeholders to make sound business decisions • Learn and understand ethical security issues around data analytics 	High
ACCA Certificate in Digital Innovation for Finance	<p>The CertDIF is designed to help you:</p> <ul style="list-style-type: none"> • Understand how digital technology is disrupting the finance profession • Increase your awareness of emerging technologies • Understand what digitalisation can mean for your role and how to make informed decisions about adopting and using new technologies • Develop a digital mindset to take into consideration emerging technologies • Stay up to date in this ever-changing and fast-moving area 	High
Machine Learning with Python for Finance Professionals	<ul style="list-style-type: none"> • Introduction to Python: Initial setup and foundational concepts like data types, variables, mathematical operators, flow control, and functions. • Data analysis: How to load data from different sources, drill down and segment, create pivot table style aggregations and explore data visualisation libraries. • Automating Excel workflows to write macros with the full power of the Python eco-system and to create template reports that update live with the latest data • How to better interrogate a model and partner with data scientists to drive adoption and use of Machine Learning • Understand the basics of a machine learning model and its relationship to data science, Big Data and Artificial Intelligence. • Apply a real-world machine learning project to meet practical objectives such as evaluating and improving the model and error detection/correction 	Medium
Visualising Data with Python	Learn how Python can help you to better understand data and convey insights to clients with this course from IBM and edX.	High
Data Analytics: Accountants and Data Revolution	<p>A webinar covering:</p> <ul style="list-style-type: none"> • Traditional data analysis - its benefits and limitations • How data analytics is changing • The impact of data analysis on business intelligence • The future of data analysis, the opportunities it presents and the role of the accountant 	Low

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ACCA Resources		
Reports on Analytics in Finance and Accountancy	A report on the four types of analytics and its role in finance and accountancy.	High
Data Analytics and the Auditor	A report on the relevance of data analytics for auditors.	High
Data Visualisation		
Data Visualization: Storytelling	This course guides you through the process of turning 'facts and figures' into 'stories' to engage and fulfil our human expectation for information.	Low
Introduction to Data Visualization	This Edureka video on 'Predictive Analysis Tutorial', will help you learn about how predictive analytics works and how it can be implemented using R to solve real-world problems.	Medium
Data Analytics		
Complete Introduction to Business Data Analysis	Learn simple, effective techniques to create impactful Excel Dashboards and Data Analysis. This course teaches practical skills one can apply in the work environment.	High
Business Analytics Specialization	<ul style="list-style-type: none"> • Learn how data analysts describe, predict, and inform business decisions in the specific areas of marketing, human resources, finance, and operations • Apply your skills to interpret a real-world data set and make appropriate business strategy recommendations 	Low
Predictive Analysis Tutorial	This Edureka video on 'Predictive Analysis Tutorial', will help you learn about how predictive analytics works and how it can be implemented using R to solve real-world problems.	Medium
Tools and learning		
Top 10 Data Visualization Tools in 2020 Best Tools for Data Visualization Edureka	This Edureka video on the Top 10 Data Visualization Tools in 2020 talks about the Data Visualization tools in a comprehensive fashion and list the top picks of the year 2020.	Medium

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Tools and learning		
<u>The Data Scientist's Toolbox</u>	Introduction to the tools like version control, markdown, git, GitHub, R, and RStudio.	Low
<u>Excel to MySQL: Analytic Techniques for Business Specialization</u>	Learn to use powerful tools such as Excel, Tableau, and MySQL to analyse data, create forecasts and models, design visualizations and communicate your insights.	Low
Pop Culture		
<u>Coded Bias</u>	A documentary on the importance of ethics in the emerging digital technologies.	Low
<u>TED talk - The beauty of data visualization - David McCandless</u>	David McCandless turns complex data sets, like worldwide military spending, media buzz, and Facebook status updates, into beautiful, simple diagrams that tease out unseen patterns and connections. Good design, he suggests, is the best way to navigate information glut - and it may just change the way we see the world.	Low