

# An Introduction To Advanced Analytics Data Science Platform

The growth of online learning since the 1990s, particularly in higher education, has contributed to the advancement of Learning Analytics as student data can be captured and made available for analysis. When learners use an LMS, social media, or similar online tools, their clicks, navigation patterns, time on task, social networks, information flow, and concept development through discussions can be tracked. The rapid development of massive open online courses (MOOCs) offers additional data for researchers to evaluate teaching and learning in online environments.

**Data engineering** Making the data usable usually involves Data engineering is a software engineering approach to the building of data systems, to enable the collection and usage of data. Making the data usable usually involves substantial compute and storage, as well as data processing. This data is usually used to enable subsequent analysis and data science, which often involves machine learning. This data is usually used to enable subsequent analysis and data science, which often involves machine learning

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**SAS (software) Analysis System** SAS (previously "Statistical Analysis System") is data and artificial intelligence software developed by SAS Institute for data management, advanced analytics, multivariate analysis, business intelligence, and predictive analytics

**Analytics** Specifically, areas within analytics include descriptive analytics Analytics is the systematic computational analysis of data or statistics. It can be valuable in areas rich with recorded information; analytics relies on the simultaneous application of statistics, computer programming, and operations research to quantify performance. Analytics also entails applying data patterns toward effective decision-

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making. It is used for the discovery, interpretation, and communication of meaningful patterns in data, which also falls under and directly relates to the umbrella term, data science. analytics to business data to describe, predict, and improve business performance

Data science also integrates domain knowledge from the underlying application domain (e.g., natural sciences, information technology, and medicine). Data science is multifaceted and can be described as a science, a research paradigm, a research method, a discipline, a workflow, and a profession. Data mining is a particular data analysis technique that focuses on statistical modeling and knowledge discovery for predictive rather than purely descriptive purposes, while business intelligence covers data analysis that relies heavily on aggregation, focusing mainly on business information... SAS was developed at North Carolina State University from 1966 until 1976, when SAS Institute was incorporated. SAS was further developed in the 1980s and 1990s with the addition of new statistical procedures, additional components and the introduction of JMP. A point-and-click interface was added in version 9 in 2004. A social media analytics product was added in 2010. SAS Viya, a suite of analytics and artificial intelligence software, was introduced in 2016.

**Data mining** Data mining is an interdisciplinary subfield of computer science and statistics with an overall goal of extracting information (with intelligent methods) from a data set and transforming the information into a comprehensible structure for further use. Data mining is the analysis step of the "knowledge discovery in databases" process, or KDD. data analysis and analytics—or, when referring to actual methods, artificial intelligence and machine learning—are more appropriate. The actual data mining Data mining is the process of extracting and finding patterns in massive data sets involving methods at the intersection of machine learning, statistics, and database systems. Aside from the raw analysis step, it also involves database and data management aspects, data pre-processing, model and inference considerations, interestingness metrics, complexity considerations, post-processing of discovered structures, visualization, and online updating

Data science is "a concept to unify statistics, data analysis, informatics, and their related methods" to "understand and analyze actual phenomena" with data. It uses techniques and theories drawn from many fields within the context... Big data analysis challenges include capturing data, data storage, data analysis, search, sharing, transfer, visualization, querying, updating, information privacy, and data source. Big data was originally associated with three key concepts: volume, variety, and velocity. The analysis of big data presents challenges in sampling, and thus previously allowing for only observations and sampling. Thus a fourth concept, veracity, refers to the quality or insightfulness of the data. Without sufficient investment... The term...

Big data behavior analytics, or certain other advanced data analytics methods that extract value from big data, and seldom to a particular size of data set. Data with many entries (rows) offer greater statistical power, while data with higher complexity (more attributes or columns) may lead to a higher false discovery rate. "There Big data primarily refers to data sets that are too large or complex to be dealt with by traditional data-processing software

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Learning analytics One earlier definition discussed by the community suggested that Learning Analytics is the use of intelligent data, learner-produced Learning analytics is the measurement, collection, analysis and reporting of data about learners and their contexts, for purposes of understanding and optimizing learning and the environments in which it occurs. Learning Analytics are still contested 390a6021ae

Organizations may apply analytics to business data to describe, predict, and improve business performance. Specifically, areas within analytics include descriptive analytics, diagnostic analytics, predictive analytics, prescriptive analytics, and cognitive analytics. Analytics... 390a6021ae

Cohort analysis Cohort analysis allows a company to "see patterns clearly across the life-cycle of a customer (or user), rather than slicing across all customers blindly without accounting for the natural cycle that a customer undergoes. Cohort analysis is specifically the analysis of cohorts in regards to big data and business analytics, while in. While cohort analysis is sometimes associated with a cohort study, they are different and should not be viewed as one and the same. These groups, or cohorts, usually share common characteristics or experiences within a defined time-span. Cohort analysis is a kind of behavioral analytics that breaks the data in a data set into related groups before analysis. These groups, or cohorts, usually Cohort analysis is a kind of behavioral analytics that breaks the data in a data set into related groups before analysis. " By seeing these patterns of time, a company can adapt and tailor its service to those specific cohorts 390a6021ae

Data science He describes data science as an applied field growing Data science is an interdisciplinary academic field that uses statistics, scientific computing, scientific methods, processing, scientific visualization, algorithms and systems to extract or extrapolate knowledge from potentially noisy, structured, or unstructured data. misleadingly advertise their analytics and statistics training as the essence of a data-science program 390a6021ae

Data analysis science Analytics Augmented Analytics Business intelligence Data presentation architecture Exploratory data analysis Machine learning Multiway data analysis Data analysis is the process of inspecting, cleansing, transforming, and modeling data with the goal of discovering useful information, informing conclusions, and supporting decision-making. Data analysis has multiple facets and approaches, encompassing diverse techniques under a variety of names, and is used in different business, science, and social science domains. In today's business world, data analysis plays a role in making decisions more scientific and helping businesses operate more effectively 390a6021ae

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