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Self Learning of Data Science for Free: Skill Development for Data Science Jobs (Volume 1)

By Prof Ajit Kumar Roy



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The amount of data currently generated by the various activities of the society has never been so big, and is being generated in an ever increasing speed. This trend is being seen by industries as a way of obtaining advantage over their competitors if one business is able to make sense of the information contained in the data reasonably quicker, it will be able to get more costumers, increase the revenue per customer, optimise its operation, and reduce its costs. Big Data analytics is still a challenging and time demanding task that requires expensive software, large computational infrastructure, and effort. Data is the new basis of competitive advantage. Enterprises that use data and sophisticated analytics turn insight into innovation, creating efficient new business processes, informing strategic decision making and outpacing their peers on a variety of fronts. Successful data scientists come from a number of different disciplines: biostatistics, econometrics, engineering, computer science, physics, applied mathematics, statistics, machine learning, and other interrelated disciplines. Experience of applying the scientific method to many disciplines and areas of research will prove fruitful in the field of data science. This book is a very basic introduction to data science. It is designed particularly for the beginners having the aptitude to learn and pursue careers in the emerging Data Science. The main emphasis of this book to help students think about the world in data science terms and learn taking advantage of free online web resources. While some elementary data science skills will be appraised, the emphasis is on skill development through self learning. Because skills are a must for data science. Data science, as practiced today, arises out of the "big data/cloud computing" world and complexity science. This means data science is an advanced discipline, requiring proficiency in parallel processing, map-reduce, computing, petabyte-sized noSQL databases, machine learning, advanced statistics and complexity science. I believe that data science is as much about mindset as it is about the skillful use of tools. Thus I want the students early in their careers to start thinking holistically about data science and related tools and techniques. There are many concepts and skills that a practical data scientist needs to know besides the fundamental principles of data science. These skills and concepts will be discussed in order to take advantage of free online data Science tutotials, courses, bootcamps, videos, blogposts, podcasts etc. This book 'Self Learning of Data Science for Free' is perfect for aspiring or current data scientists to learn from the best. It s a reference book packed full of strategies, suggestions and recipes to launch and grow your own data science career.

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Editorial Review

From the Author

Data science is a set of fundamental principles that guide the extraction of knowledge from data. Data mining is the extraction of knowledge from data, via technologies that incorporate these principles. Data science involves principles, processes, and techniques for understanding phenomena via the automated analysis of data. Data science as a profession and as an academic discipline is new, having been born in the first decade of the 21st century. Data Science is a flourishing industry. Countries and companies around the world are continuously experiencing a rush in the amount of data collected. They are determined to hire experts who can work on their data and improve their lives. Such experts are known by many names. Most popular is 'Data Scientist'. Among others include Data Engineers, Data Architects and Statisticians etc. A data scientist is someone who is better at statistics than any software engineer and better at software engineering than any statistician. Data scientist's most basic, universal skill is the ability to write code. Data Scientist means a professional who uses scientific methods to liberate and create meaning from raw data. With vast amounts of data now available, companies in almost every industry are focused on exploiting data for competitive advantage. In the past, firms could employ teams of statisticians, modelers, and analysts to explore datasets manually, but the volume and variety of data have far outstripped the capacity of manual analysis. At the same time, computers have become far more powerful, networking has become ubiquitous, and algorithms have been developed that can connect datasets to enable broader and deeper analyses than previously possible. The convergence of these phenomena has given rise to the increasingly widespread business application of data science principles and data-mining techniques. Big data technologies such as Pig, Hive, NoSQL dialect, and MapReduce, Hadoop, HBase, and MongoDB have received considerable media attention recently. Big data essentially means datasets that are too large for traditional data processing systems, and therefore require new processing technologies. As with the traditional technologies, big data technologies are used for many tasks, including data engineering. Occasionally, big data technologies are actually used for implementing data mining techniques. One of the most frequent questions we hear, is "how do I become data scientist? Probably rising costs, changing demand, and the Internet are disrupting this traditional path and providing a viable alternatives of self-learning through Massive Open On line Courses (MOOCs) that facilitates access to courses at an extremely low cost often free. Further Boot camps offer students a structured learning environment at a far more affordable rate compared with obtaining a Master's Degree. Therefore, felt the need to compile a book 'Self Learning of Data Science for Free' containing web addresses, links, tutorials, video, blog posts that will guide one to the right direction to become a Data Scientist for free. I am thankful to the LinkedIn & Twitter data science community, for exposing me to a many new concepts, and enriching me to write a book for future Data Scientists enabling skill development to grab the hottest jobs of 21st century.

From the Back Cover

Getting started in the exciting field of data science can be a bit overwhelming. There are so many new tools, ground breaking applications and innovative ways to explore data that even experts in the field do not have it all figured out. But for budding data scientists, understanding this complex field may be just a few clicks away. The book provides a brief, understandable, user-friendly guide to all aspects of Data Science along with links to free educational sites. The author addresses the various skills required, the key steps in the Data Science process, software technology related to the effective practice of Data Science, and the best rising academic programs for training in the field. Data science is a hot and growing field. In this book, one will be approaching data science from scratch. The book does not presume sophisticated mathematical background. However, by its very nature the materials somewhat technical the goal is to impart a significant

understanding of data science. Data Scientist' is one of the most important future STEM jobs. They need to have expertise in new technologies that help manage large datasets. These technologies and concepts include MapReduce, NoSQL databases, MongoDB, SQL, Hadoop, Storm, etc. Focussing on Young Data Scientist inspires learners to take up Data Science giving them a head start to future careers and jobs. They can learn a lot going through the following links. Ø How to Become a Data Scientist for Free Ø *The Open Source Data Science Masters* Ø Most Required Skills for a Data Scientist Ø Self Learning of skill to become a good data Scientist Ø Free Books, Videos, Blog Posts, Vodcasts, Twitter & Infographic, *YouTube*, *Amazon Web Services* and *free training* to become a Data Scientist Ø *Self Starter Way* Ø The Best Free Courses Ø *Most Sought After Skills Employers Are Looking For Data Scientist Positions* Ø Data Scientist Education Requirements Ø Data Scientist Training Programs The following comments by the industry experts may indicate the future job prospect & salary aspects of the data Scientists Ø Data scientist has been called "*the sexiest job of the 21st century*," Ø Data Scientists are the new Kings of the Silicon Valley! Ø Big Data: Career Opportunities Abound in Tech's Hottest Field. Ø The Hottest Jobs in IT: Training Tomorrow's Data Scientists.- Forbes Ø People with data analysis skills are in demand and demand is growing. By 2018 there will be a talent gap" of between 140,000-190,000 people, says the McKinsey Global Institute (in the U.S.). Ø Winter Wyman's reported seeing a "300% increase in demand for data scientists and engineers" "*Self Learning of Data Science for Free*" is an ideal read for budding data scientists who are just getting started in the field. This book will lead you to see through the popular hype around "big data," and it will give you the knowledge and insights you need to hit the ground running in this fast-growing field. Consider this an essential reading list for the aspiring data scientist. Perfect for new data scientists. The book will be quite useful for preparing to interview data science job candidates. The demand from business for hiring data scientists is strong and increasing. Every data science job seeking candidate should understand the fundamentals presented in this book.

About the Author

Award winning *Key Note Speaker at International Level*, Professor Ajit Kumar Roy is an acclaimed researcher and consultant. Prof. Roy obtained his M.Sc. degree in Statistics and joined Agricultural Research Service (ARS) of ICAR as a Scientist (Statistics) in 1976. In recent past was engaged as National Consultant (Impact Assessment) for East & North Eastern States of India at National Agricultural Innovation Project (World Bank funded) of ICAR. Prior to that he was Consultant (Statistics) at Central Agricultural University, Agartala. Served at CIFA, ICAR, as Principal Scientist was involved in R & D activities in ICT, Statistics, Bioinformatics and Economics. At International level he served as a Computer Specialist at SAARC Agricultural Information Centre (SAIC), Dhaka, Bangladesh for over 3 years. He has successfully organized many workshops at National and International level.

The author has more than 45 years of experience in Statistical Analysis, Analytics and information management. He has edited eighteen books and several conference proceedings covering the areas of statistics, bioinformatics, economics and ICT applications in aquaculture/fisheries/agriculture. His recent best-sellers are '*Applied Big Data Analytics*'; '*Impact of Big Data Analytics on Business, Economy, Health Care and Society*'; '*Self Learning of Bioinformatics Online*'; '*Applied Bioinformatics, Statistics and Economics in Fisheries Research*' and '*Applied Computational Biology and Statistics in Biotechnology and Bioinformatics*'. Presently visiting Professor, question setter and examiner of four Indian Universities. He has vast experience in Statistical consulting, guidance and Analytics. He is widely recognized as an expert research scientist, teacher, author, hands-on leader in advanced analytics.

Users Review

From reader reviews:

Mary Rohan:

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Exactly why? Because this Self Learning of Data Science for Free: Skill Development for Data Science Jobs (Volume 1) is an unordinary book that the inside of the book waiting for you to snap the idea but latter it will jolt you with the secret the idea inside. Reading this book close to it was fantastic author who else write the book in such wonderful way makes the content inside of easier to understand, entertaining approach but still convey the meaning totally. So , it is good for you because of not hesitating having this anymore or you going to regret it. This excellent book will give you a lot of rewards than the other book have such as help improving your expertise and your critical thinking approach. So , still want to hesitate having that book? If I had been you I will go to the reserve store hurriedly.

Cheryl Reese:

In this era globalization it is important to someone to receive information. The information will make anyone to understand the condition of the world. The condition of the world makes the information quicker to share. You can find a lot of referrals to get information example: internet, magazine, book, and soon. You can observe that now, a lot of publisher that will print many kinds of book. Often the book that recommended to you personally is Self Learning of Data Science for Free: Skill Development for Data Science Jobs (Volume 1) this publication consist a lot of the information with the condition of this world now. That book was represented how does the world has grown up. The words styles that writer use for explain it is easy to understand. The writer made some investigation when he makes this book. Here is why this book appropriate all of you.

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