Data Science - A Career Option for 21st Century: Job Prospect in Data Science (Data Science-2) (Volume 1)

Prof Ajit Kumar Roy

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Presently, scientists, engineers, educators, citizens and decision-makers have unprecedented amounts and types of data available to them. Data generates from many sources, including scientific instruments, medical devices, telescopes, microscopes, satellites; digitally-authored media, text, images, audio, and emails; streaming data from weblogs, videos, financial & commercial transactions. Now we are facing challenges in the management of data and knowledge; and data-enabled discovery processes. Therefore, attention is given on the computational, mathematical, and statistical methods for data analysis; and visualization techniques for "making sense" of the data. Data Science is an applied activity and data scientists serve the needs and solve the problems of data users. 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 and most popular is 'Data Scientist'. Thomas Davenport and D.J. Patil brought the data scientist into the national spotlight terming 'Data Scientist: The Sexiest Job of the 21st Century'. Data Scientists are in high demand. There is simply not enough talent to fill the jobs. According to expert opinion to become a data scientist, you need is to have enough baseline knowledge and experience, and the skill to constantly adapt and learn. Boot camps are the perfect medium for making the transition. Data science is big landscape and self-learning is the necessary skill if anyone wants to become a good data scientist. MOOCs had been Major source of treasure for the data scientist. You can search through this exhaustive list of courses duly reviewed by experts and documented in the book entitled. 'Data Science-A Career Option for 21st Century'.The book is broadly compiled with the following seven chapters and within each chapter there are many points to get the answers of the key questions that are likely to come from the aspiring Data Scientists. Chapter 1: Basic Concept about Data and Data Science Chapter 2: Comparison among Data Scientist and Other Analytic Disciplines Chapter 3: Skill Requirement for Data Scientist's Job Chapter 4: Data Science Courses Offered by Educational Institutions Chapter 5: Big Data Trends, Predictions and Growth in the Next 12 Months - 2016 Chapter 6: Modeling Related to Data Science Chapter 7: Career Outlook for Data Science Professionals Besides, the book contains web addresses, links, tutorials, video, blog posts that will guide one to the right direction to learn and equip oneself to become a successful Data Scientist. The book is an ideal read for budding data scientists who are just getting started in the field. This book will give you the knowledge and insights you need to hit the ground running in this fast-growing field. This is an essential & Perfect for the aspiring data scientists. Every data science job seeking candidate should understand the fundamentals presented in this book. The demand for Analytics skill is going up steadily globally but there is a huge deficit on the supply side. In spite of Big Data Analytics being a 'Hot' job, there are still a large number of unfilled jobs across the globe due to shortage of required skill.This reflects the increasing demand for sophisticated data analysis skills, combining computer programming with statistics, and the growth in the popularity of the term "data science". A McKinsey Global Institute study states that the US will face a shortage of about 190,000 data scientists and 1.5 million managers and analysts who can understand and make decisions using Big Data by 2018.India currently has the acute scarcity of data analytics talent and demand for talent is expected to be on the higher side as more global organizations are outsourcing their work.

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