

Data-Driven Careers Deciphered

A succinct introduction to Key roles in Data Science.



Business Analyst

- ☐ A few core know-hows are required Which comprise Of:
 - ☐ Knowledge of Statistical Tools/Softwares: SAS, STATA. SPSS, R
 - ☐ Able to demonstrate an understanding of analytical techniques including regression, trend analysis, forecasting and A/B testing.
 - ☐ MS Excel Mastery including Pivot tables, Array function & VBA Visualisation Tools like Tableau. Power BI. QlikView
 - ☐ A substantial amount Of domain knowledge

Data Analyst

- ☐ A baseline understanding of a few core know-hows are required which comprises of:
 - ☐ Programming (Python & R)
 - ☐ Applied Statistical analysis
 - ☐ Applied Machine learning
 - ☐ Data Visualization – Tableau. PowerBI. QlikView
 - ☐ Data Munging
 - ☐ Data Collection & Processing

Data Engineer

- ☐ The Skill set for a data engineer includes:
 - ☐ Data Tools & Ecosystems – MapReduce. Hive, pig, Spark. Kafka
 - ☐ SQL based technologies – MySQL. PostgreSQL
 - ☐ NoSQL Technologies – Mongo DB. Cassandra
 - ☐ Data Warehousing Solutions.

Data Scientist

- ☐ Toolkit for a Data Scientist Comprising of a few Concepts along with the ones Mentioned above for A Data Analyst:
 - ☐ Multivariate Statistics – Regression, Principal components analysis and clustering
 - ☐ Natural Language Processing
 - ☐ Computer Vision
 - ☐ Prescriptive & Predictive Modelling.
 - ☐ Cloud Services - AWS, Google cloud, Microsoft Azure.
 - ☐ Familiarity with deployment mechanisms for Machine Learning algorithms and frameworks like TensorFlow, PyTorch, Keras, etc.

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