

# Can an ECE engineer be a data scientist?

 Answer  Follow · 15  Request

     

Ad by Luminati.io

## Luminati enables businesses to scrape data from the web.

Proxy network for businesses. Scrape using our 36M residential IPs without getting blocked or misled.

[learn more at luminati.io](https://luminati.io)

...

## 4 Answers



Julie Ann, studied Computer Science at The University of Texas at Austin  
Answered Nov 4, 2017



Yes, an ECE engineer can become a **Data Scientist** . Although it may take you a bit more time and effort initially than people from a programming background, but here are the overall skills you would need to acquire in this case:

- 1) Mathematics. The most important ones being multivariable calculus, linear algebra, matrix algebra and probability.
- 2) Statistics. Hypothesis testing and summary statistics are required thoroughly.
- 3) Machine Learning tools. Various ML techniques like k-nearest neighbors, random forests and ensemble methods would be required.
- 4) Distributed Systems, Data Structures and Algorithms. These are definitely a must.
- 5) A good data scientist needs to be efficient in data mining, data cleaning and data munging.
- 6) Data visualization and reporting techniques like ggplot and d3.js would prove handy.
- 7) Unstructured data techniques.
- 8) Languages like R and SAS.
- 9) Query languages, SQL. Querying and instructional languages form an integral part.
- 10) Python, Java, C++. Python would be the most helpful.
- 11) For working with your massive data volumes, you require Hadoop, Hive, Pig.

12) Cloud tools like Amazon S3. Once you are acquired with these skillsets, your academic background would provide any hindrance in your path to becoming a data scientist.

*I work for **COSO IT** . We are Data Science, Big Data, Artificial Intelligence, Machine Learning and Analytics **Consultants** and **Trainers** . After working with various Projects on various **latest Technologies** we also sharing our knowledge through Training in various latest Technologies. Our Training are near to real-time with real challenges we face while working on Project.*