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## CERTIFICATIONS

During my studies I learned data science processes, including how to build effective data visualizations, and how to communicate with various stakeholders. As well as developing software engineering skills that are essential for data scientists, such as creating unit tests and building classes. By working with data through the entire data science process, from running pipelines, transforming data, building models, and deploying solutions to the cloud. Navigating hands on experience with designing experiments and analyze A/B test results. Explore approaches for building recommendation systems.

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### PYTHON FOR DATA SCIENCE: FUNDAMENTALS

[\(app.dataquest.io/verify\\_cert/LPIVNWVJ05V66ISKPAWG/\)](https://app.dataquest.io/verify_cert/LPIVNWVJ05V66ISKPAWG/)

### PYTHON FOR DATA SCIENCE: INTERMEDIATE

[\(app.dataquest.io/verify\\_cert/ULRDAXVDX2VC6K9R6ONF/\)](https://app.dataquest.io/verify_cert/ULRDAXVDX2VC6K9R6ONF/)

### PANDAS AND NUMPY FUNDAMENTALS

[\(app.dataquest.io/verify\\_cert/2NVPBKFOJIDJMJ71RYLA/\)](https://app.dataquest.io/verify_cert/2NVPBKFOJIDJMJ71RYLA/)

### EXPLORATORY DATA VISUALIZATION

[\(app.dataquest.io/verify\\_cert/I0ENB44C97A39V1FMSR5/\)](https://app.dataquest.io/verify_cert/I0ENB44C97A39V1FMSR5/)

### STORYTELLING THROUGH DATA VISUALIZATION

[\(app.dataquest.io/verify\\_cert/4O395DMZYNOV10Y3N53X/\)](https://app.dataquest.io/verify_cert/4O395DMZYNOV10Y3N53X/)

### DATA CLEANING AND ANALYSIS

[\(app.dataquest.io/verify\\_cert/HI4908N0L9MJ6O36ECJY/\)](https://app.dataquest.io/verify_cert/HI4908N0L9MJ6O36ECJY/)

### ADVANCED SQL FOR DATA ANALYSIS

[\(app.dataquest.io/view\\_cert/B57TNB4FBY41W3OIOBK4/\)](https://app.dataquest.io/view_cert/B57TNB4FBY41W3OIOBK4/)

### APIS AND WEB SCRAPING IN PYTHON

[\(app.dataquest.io/view\\_cert/46YBAC2163EMXAS1N5E4/\)](https://app.dataquest.io/view_cert/46YBAC2163EMXAS1N5E4/)

### STATISTICS INTERMEDIATE: AVERAGES AND VARIABILITY

[\(app.dataquest.io/view\\_cert/42D76RTMV7I825O3GHPQ/\)](https://app.dataquest.io/view_cert/42D76RTMV7I825O3GHPQ/)

### CONDITIONAL PROBABILITY

[\(app.dataquest.io/view\\_cert/VJD60B9HRDLP7R0WN4T6/\)](https://app.dataquest.io/view_cert/VJD60B9HRDLP7R0WN4T6/)

### STATISTICS INTERMEDIATE: AVERAGES AND VARIABILITY

[\(app.dataquest.io/view\\_cert/42D76RTMV7I825O3GHPQ/\)](https://app.dataquest.io/view_cert/42D76RTMV7I825O3GHPQ/)

### LINEAR ALGEBRA FOR MACHINE LEARNING

[\(app.dataquest.io/view\\_cert/MU4IQSV0IZYU6FN36Q84/\)](https://app.dataquest.io/view_cert/MU4IQSV0IZYU6FN36Q84/)

### MACHINE LEARNING IN PYTHON: INTERMEDIATE

[\(app.dataquest.io/view\\_cert/D6G8FAV8HAR1M5WBEI6P/\)](https://app.dataquest.io/view_cert/D6G8FAV8HAR1M5WBEI6P/)

### FUNCTIONS: ADVANCED

[\(app.dataquest.io/verify\\_cert/JP20HOHNNJQNO5KOM191/\)](https://app.dataquest.io/verify_cert/JP20HOHNNJQNO5KOM191/)

### DECISION TREES

[\(app.dataquest.io/verify\\_cert/5P7SVE68EQCC7IDKNU92/\)](https://app.dataquest.io/verify_cert/5P7SVE68EQCC7IDKNU92/)

### SPARK AND MAP-REDUCE

[\(app.dataquest.io/verify\\_cert/O551T9PS37M9YZHL6RN6/\)](https://app.dataquest.io/verify_cert/O551T9PS37M9YZHL6RN6/)

### DATA CLEANING AND ANALYSIS

[\(app.dataquest.io/verify\\_cert/HI4908N0L9MJ6O36ECJY/\)](https://app.dataquest.io/verify_cert/HI4908N0L9MJ6O36ECJY/)

### DATA CLEANING IN PYTHON: ADVANCE

[\(app.dataquest.io/verify\\_cert/HI4908N0L9MJ6O36ECJY/\)](https://app.dataquest.io/verify_cert/HI4908N0L9MJ6O36ECJY/)

### ELEMENTS OF THE COMMAND LINE

[\(app.dataquest.io/view\\_cert/FZV24PGCDGO7QLO78LT6/\)](https://app.dataquest.io/view_cert/FZV24PGCDGO7QLO78LT6/)

### TEXT PROCESSING IN THE COMMAND LINE

[\(app.dataquest.io/verify\\_cert/2KZEOCEZ2ZC9UURAJPM5/\)](https://app.dataquest.io/verify_cert/2KZEOCEZ2ZC9UURAJPM5/)

### SQL FUNDAMENTALS

[\(app.dataquest.io/view\\_cert/XNKXVB460Y1IHYXPM8J/\)](https://app.dataquest.io/view_cert/XNKXVB460Y1IHYXPM8J/)

### INTERMEDIATE SQL FOR DATA ANALYSIS

[\(app.dataquest.io/view\\_cert/WUZO6CELHUKD9DDM0QXJ/\)](https://app.dataquest.io/view_cert/WUZO6CELHUKD9DDM0QXJ/)

### DATA ANALYSIS IN BUSINESS

[\(/app.dataquest.io/verify\\_cert/SGRM7VQECCBF4IB5KS53/\)](https://app.dataquest.io/verify_cert/SGRM7VQECCBF4IB5KS53/)

### STATISTICS FUNDAMENTALS

[\(app.dataquest.io/view\\_cert/U6W5PUZUL8BUSZKGMOCN/\)](https://app.dataquest.io/view_cert/U6W5PUZUL8BUSZKGMOCN/)

### PROBABILITY: FUNDAMENTALS

[\(app.dataquest.io/view\\_cert/BEJHQGYX9YN39ZIKY19N/\)](https://app.dataquest.io/view_cert/BEJHQGYX9YN39ZIKY19N/)

### CALCULUS FOR MACHINE LEARNING

[\(app.dataquest.io/view\\_cert/HZ213N0MXIWCVCCT9QZ6/\)](https://app.dataquest.io/view_cert/HZ213N0MXIWCVCCT9QZ6/)

### LINEAR REGRESSION FOR MACHINE LEARNING

[\(https://app.dataquest.io/view\\_cert/MU4IQSV0IZYU6FN36Q84/\)](https://app.dataquest.io/view_cert/MU4IQSV0IZYU6FN36Q84/)

### MACHINE LEARNING INTRODUCTION WITH PYTHON

[\(https://app.dataquest.io/view\\_cert/7RAWOVSC1VORALI6410G/\)](https://app.dataquest.io/view_cert/7RAWOVSC1VORALI6410G/)

### MACHINE LEARNING IN PYTHON: PROJECT

[\(app.dataquest.io/verify\\_cert/HJCKHC50X9HURT2B6MMA/\)](https://app.dataquest.io/verify_cert/HJCKHC50X9HURT2B6MMA/)

### COMMAND LINE: INTERMEDIATE

[\(app.dataquest.io/verify\\_cert/XLSXB0NGAEGFCMOF9PNR/\)](https://app.dataquest.io/verify_cert/XLSXB0NGAEGFCMOF9PNR/)

### GIT AND VERSION CONTROL

[\(app.dataquest.io/verify\\_cert/6E6CIC945QJ6QPI102EU/\)](https://app.dataquest.io/verify_cert/6E6CIC945QJ6QPI102EU/)