



# STATEMENT OF ACCOMPLISHMENT

#204,179

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Data Scientist with Python Track**

COMPLETED ON

**FEB 26, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



## Graduation Certificate

**Gonzalo Manrique Sabaté**, representing Ironhack Group INC. Sucursal en España  
CIF W4009352H whose domicile is C/ Castelló 115B local 7 - 28006 Madrid.

Certifies that

# Daniel Tristram

has successfully completed the

**9-Week Data Analytics Bootcamp (October 19 - December 18,  
ACQUIRED SKILLS 2020)**

- Workflow / Tech stack: Command Line, Virtual Environments, Python, Jupyter Notebooks, Git, SQL
- Programming in Python: Data structures, Control Flow, Functions, Modules, Regex
- Python libraries: Pandas, Numpy, Scipy, Matplotlib, Seaborn, BeautifulSoup, Statsmodels, Scikit-learn
- Analytics applications: Web Scraping, APIs, Data Cleaning, Data Visualization, Exploratory Data Analysis, Descriptive Statistics, Statistical Hypothesis testing, A/B testing, Regression, Time-series analysis
- Business Intelligence and stories in Tableau
- Supervised & Unsupervised Machine Learning: Data Cleaning, Data Preparation, Feature Engineering, Feature Selection, Hyperparameter Tuning, Model Evaluation, Predictions, K-Means Clustering, Recommender Systems

**Michael LAND**  
General Manager | Berlin



**Gonzalo MANRIQUE**  
Co-Founder | Ironhack



Nov 26, 2020

## Daniel Tristram

has successfully completed

### Data Science Math Skills

an online non-credit course authorized by Duke University and offered through Coursera

Three handwritten signatures are placed on a dotted line: Daniel Egger's signature on the left, Paul Bendich's in the center, and Michael C. Littman's on the right.

Daniel Egger  
Executive in Residence and Director,  
Center for Quantitative Modeling  
Pratt School of Engineering

Paul Bendich  
Assistant research professor of Mathematics  
Associate Director for Curricular Engagement at the Information Initiative at Duke  
Mathematics

### COURSE CERTIFICATE



Verify at [coursera.org/verify/QDNTRW9C88SR](https://coursera.org/verify/QDNTRW9C88SR)

Coursera has confirmed the identity of this individual and their participation in the course.



# STATEMENT OF ACCOMPLISHMENT

#18,112,528

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Cluster Analysis in Python**

COMPLETED ON

**FEB 26, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#18,102,991

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Case Study: School Budgeting with Machine Learning in Python**

COMPLETED ON

**FEB 24, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,992,245

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Machine Learning with Tree-Based Models  
in Python**

COMPLETED ON

**FEB 23, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,910,750

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Unsupervised Learning in Python**

COMPLETED ON

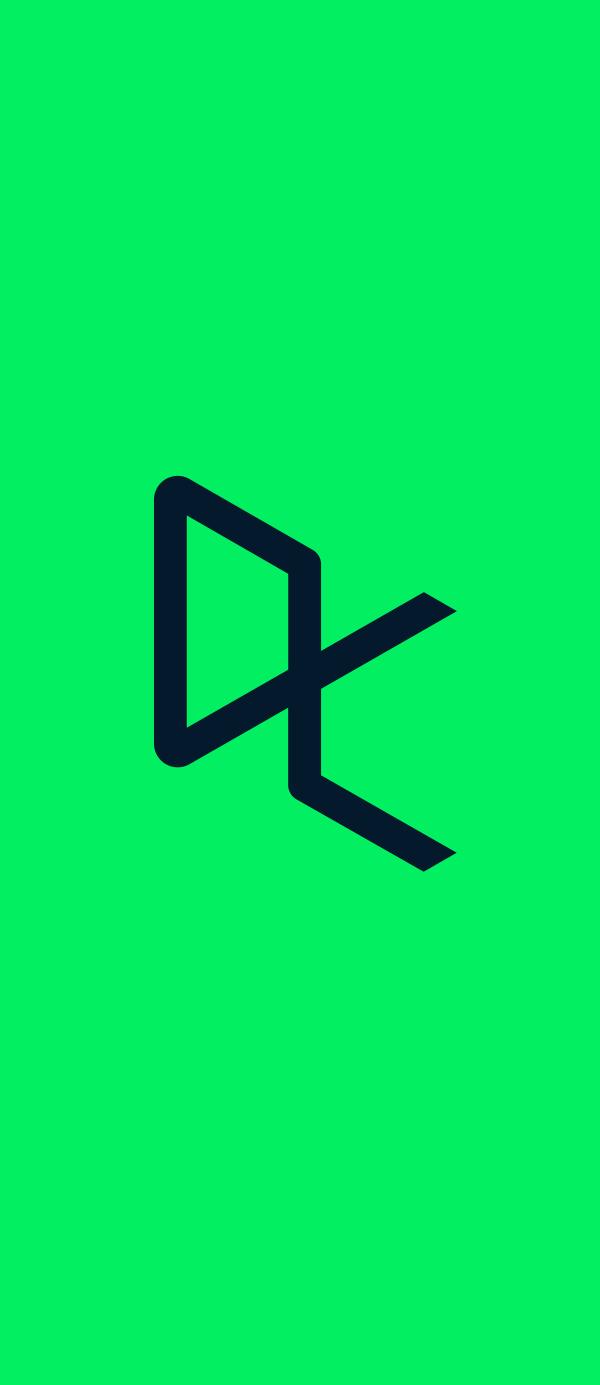
**FEB 13, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,071,437

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Supervised Learning with scikit-learn**

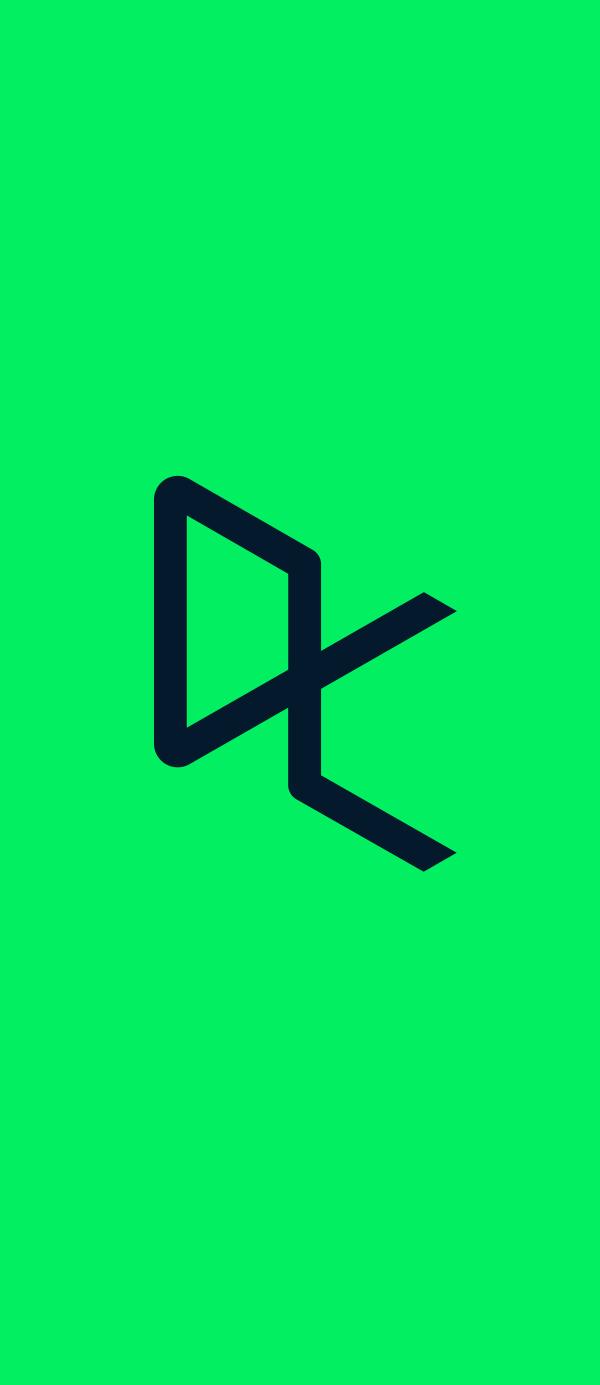
COMPLETED ON

**DEC 09, 2020**



A handwritten signature in black ink that reads "Theuwissen".

Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,178,179

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Statistical Thinking in Python (Part 2)**

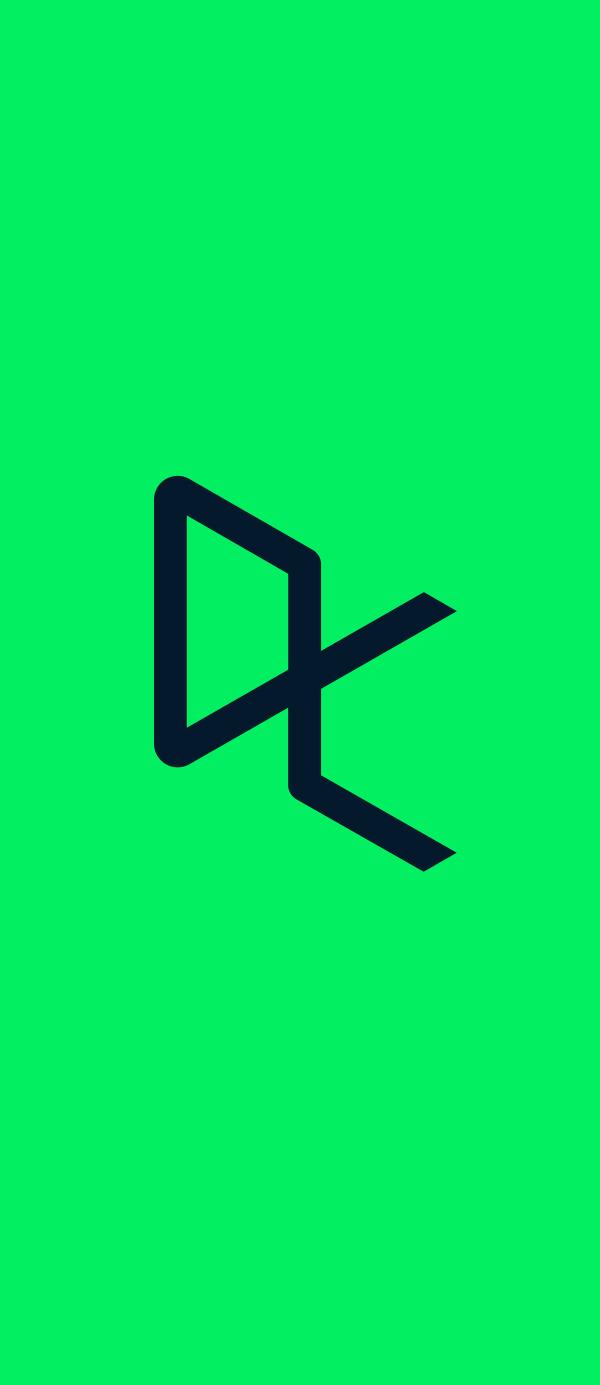
COMPLETED ON

**JAN 13, 2021**



A handwritten signature in black ink that reads "Theuwissen".

Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,424,117

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Statistical Thinking in Python (Part 1)**

COMPLETED ON

**JAN 11, 2021**



A handwritten signature in black ink that reads "Theuwissen".

Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,910,737

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Analyzing Police Activity with pandas**

COMPLETED ON

**FEB 25, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,174,515

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Exploratory Data Analysis in Python**

COMPLETED ON

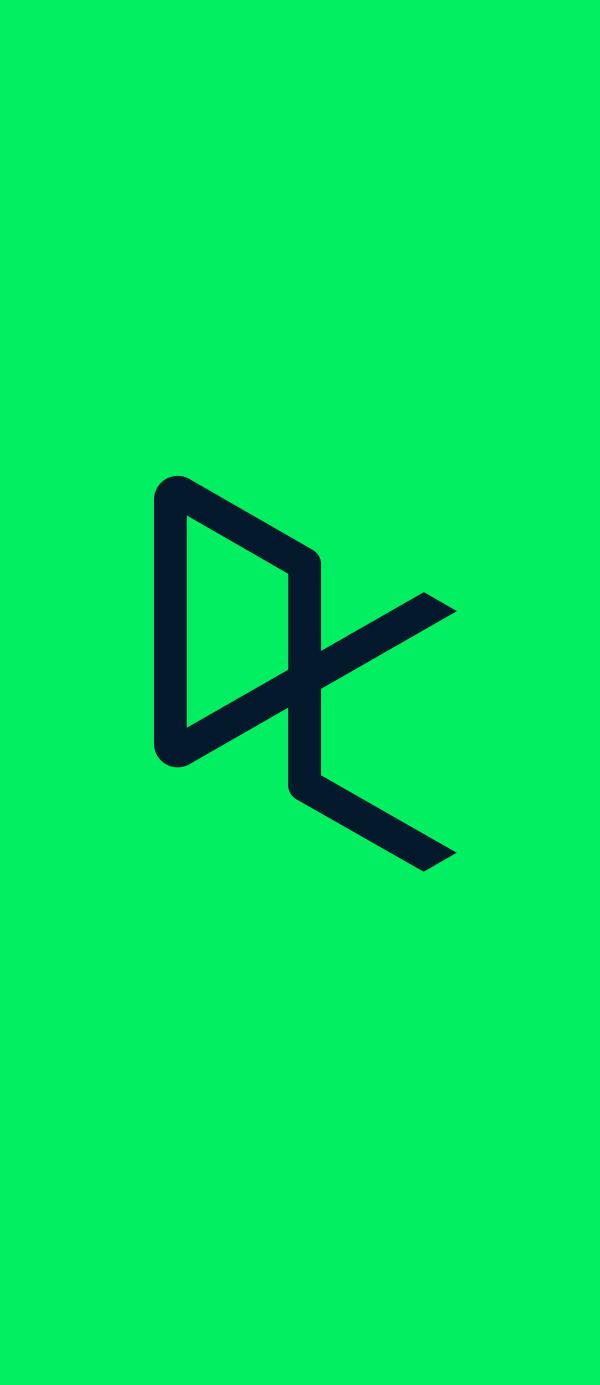
**FEB 06, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen, CEO".

Jonathan Cornelissen, CEO

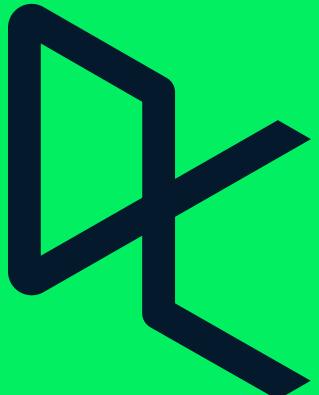


# STATEMENT OF ACCOMPLISHMENT

#17,616,868

HAS BEEN AWARDED TO

**Daniel Tristram**



FOR SUCCESSFULLY COMPLETING

**Writing Functions in Python**

COMPLETED ON

**JAN 26, 2021**



Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,840,618

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Working with Dates and Times in Python**

COMPLETED ON

**FEB 04, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,826,011

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Cleaning Data in Python**

COMPLETED ON

**FEB 04, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,808,624

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Intermediate Importing Data in Python**

COMPLETED ON

**FEB 03, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,800,943

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Introduction to Importing Data in Python**

COMPLETED ON

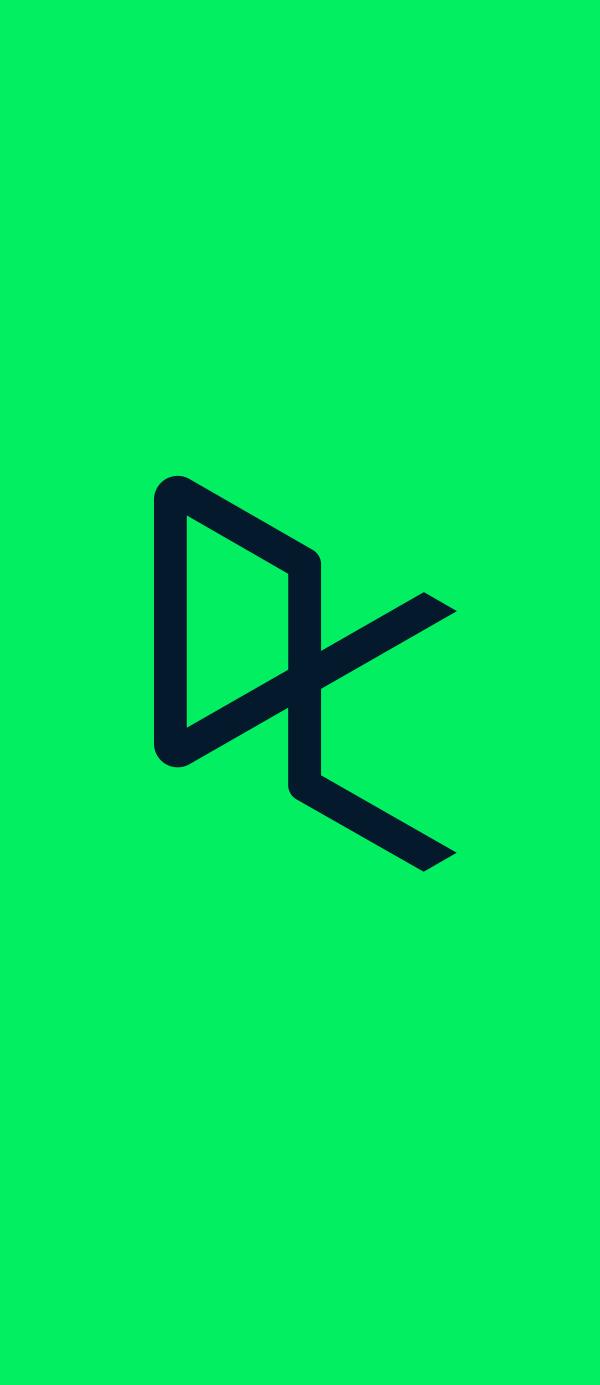
**FEB 02, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,559,314

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Python Data Science Toolbox (Part 2)**

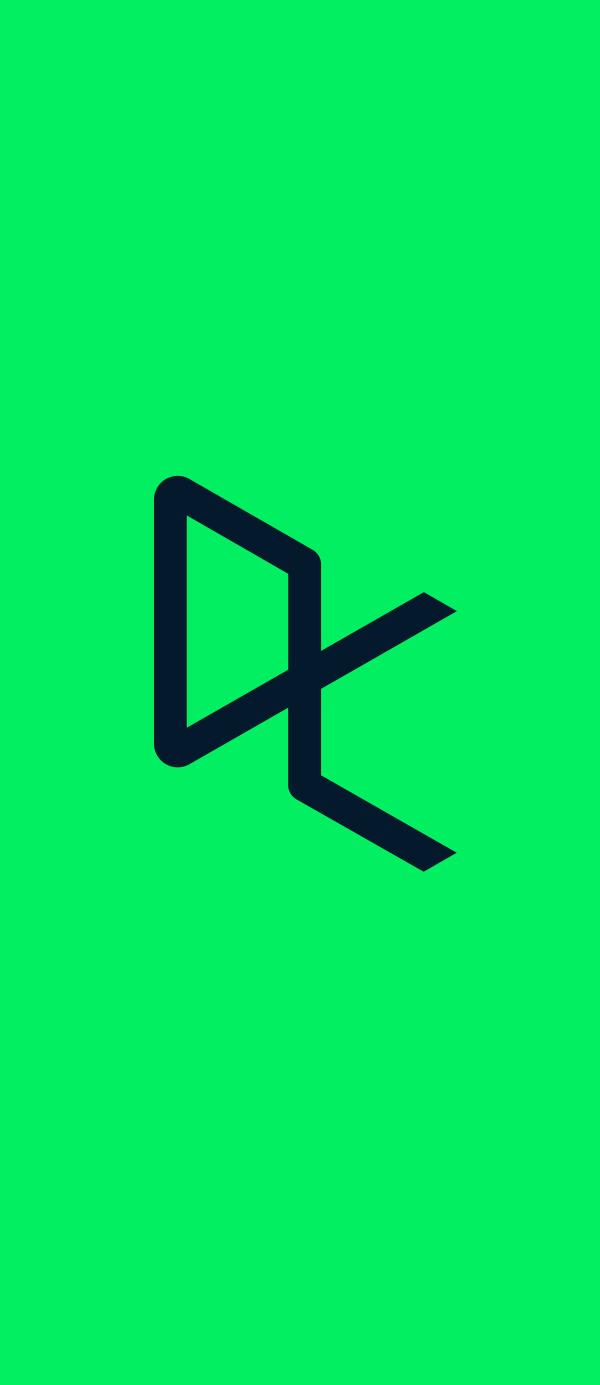
COMPLETED ON

**JAN 20, 2021**



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Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,522,286

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Python Data Science Toolbox (Part 1)**

COMPLETED ON

**JAN 14, 2021**



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Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,793,698

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Intermediate Data Visualization with  
Seaborn**

COMPLETED ON

**FEB 01, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,787,136

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Introduction to Data Visualization with  
Seaborn**

COMPLETED ON

**FEB 01, 2021**

 **datacamp**



A handwritten signature in black ink that reads "Jonathan Cornelissen, CEO".

Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,756,602

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Introduction to Data Visualization with  
Matplotlib**

COMPLETED ON

**FEB 01, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#17,071,313

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Joining Data with pandas**

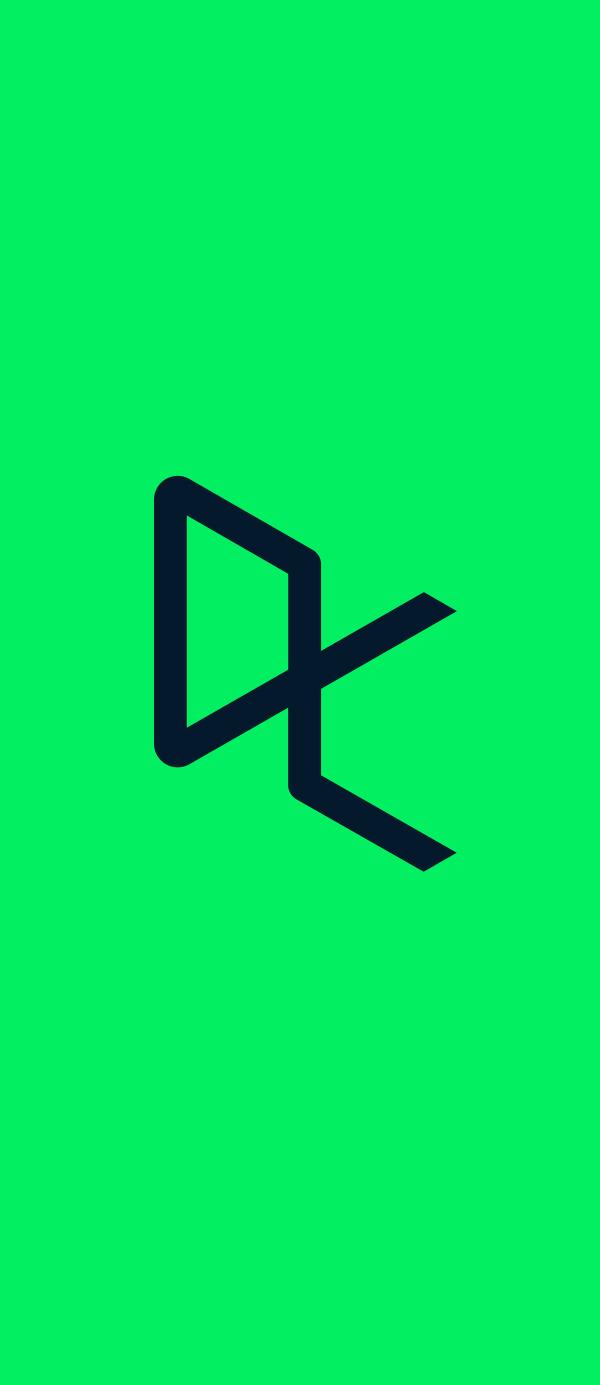
COMPLETED ON

**JAN 29, 2021**

 **datacamp**



Jonathan Cornelissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#16,999,769

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Data Manipulation with pandas**

COMPLETED ON

**DEC 05, 2020**



A handwritten signature in black ink that reads "Theuwissen".

Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#16,535,227

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Intermediate Python**

COMPLETED ON

**NOV 29, 2020**



A handwritten signature in black ink that reads "Theuwissen".

Martijn Theuwissen, CEO



# STATEMENT OF ACCOMPLISHMENT

#16,516,253

HAS BEEN AWARDED TO

**Daniel Tristram**

FOR SUCCESSFULLY COMPLETING

**Introduction to Python**

COMPLETED ON

**OCT 24, 2020**

 **datacamp**



Jonathan Cornelissen, CEO