

ZERTIFIKAT

Hiermit bestätigen wir, dass

Maria Ulfah

das Intensivprogramm

Aus-/Weiterbildung zum Data Scientist

mit 540 Stunden Programmierpraxis (entspricht 720 Unterrichtseinheiten) erfolgreich absolviert hat.

Dalia Das, Founder & CEO

Dr. Tereza Iofciu, Head Coach

01.02.2021 — 27.04.2021 Hamburg, den 27.04.2021







» neue fische

School and Pool for Digital Talent

Ausbildungsinhalte

Die Teilnehmer*innen haben in 720 Unterrichtseinheiten folgende Inhalte gelernt, diskutiert und in unterschiedlichen Aufgaben und Projekten vertieft:

Programming & Database

Python

- · Pandas
- · Numpy
- · Functional Programming
- · Scikit-Learn
- TensorFlow/Keras

Unix

· Filesystem manipulations

SQL

AWS

- · IAM
- SageMaker
- EC2
- · S3

Google Cloud

- · Big Query
- · Google Notebooks

Exploratory Data Analysis (EDA) & Statistics

Data preprocessing

- Sklearn Pipelines
- · Pandas DataFrame

Data Analysis

- · Distributional analysis
- · General statistics

Data Visualization

- · Boxplots
- Scatter plots
- · Geo visualizations

Data Science Portfolio **Projects**

Project 1

· Exploratory Data Analysis

Project 2

Predictive Modeling

Final Project

· Capstone (4 weeks)

Machine Learning

Regression & Classification

Machine Learning Algorithms

- · OLS-based models · Logistic Regression
- Decision Trees
- Random Forests
- · Naive Bayes
- · KNN
- · SVM
- K-means
- · PCA
- · Semi-supervised models
- · Time Series models
- · NLP

Evaluation & Performance

- · Decision Matrix
- Model interpretability

Model tuning

- · Bias-Variance Tradeoff
- · Regularization
- · Cross-validation

Optimization

- · Gradient Descent
- Cost functions

Deep Learning

- · ANN
- · CNN

Machine Learning Pipelines

· MLflow

Collaborative Working & Social Learning

Pair Coding

· Driver & Navigator

Agile Workflow

- · Daily Stand-Ups
- · Git Project Board
- Kanban

Daily Class Review

· Team work & Selforganization skills

Group Work, Individual

Exercises, Reversed Classroom

Presentations from students

Git-Workflow

- clone
- fork
- · code reviews
- · merging

Student 1:1

· Spot checks with instructional team

Communication w/ Stakeholders

Business presentation

· Non-technical stakeholders

Data Science Lifecycle presentation

Technical stakeholders

Visualization

- Matplotlib
- Seaborn
- · Dash/Plotly
- · Google Data Studio

Stakeholder Review

· Compact & time-critical project alignment











ZERTIFIKAT

Maria Ulfah

PROJEKT:

How users read news sites

Clustering the users of news sites based on user tracking and article data

News portals publish a large number of articles of different types and on different topics. By implementing tracking tools, publishers collect a lot of data about individual pageviews, which can be used to research the performance of articles and the preferences of different users.

Interesting insights were generated on the distribution of pageviews over time, the performance of different articles, and preferences of different readers. A dashboard was deployed to vizualize the properties of the identified clusters.



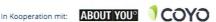
TECH-STACK:

Clouds (Google Data Studio) / BigQuery / SQL / AI Platform / Vaex / Pandas / Numpy / StandardScaler / PCA / Scikit-learn / K-Means / DBScan / Dash / Plotly / Heroku / Unix / KANBAN / Git

> **ABSCHLUSSPROJEKT** "DIGITALES GESELLENSTÜCK"











Very humble and yet knows her stuff.

Likes to help others.

"Excellent tech skills.

Hands on mentality. Very reliable.

Eager to deliver the best results.

An awesome person to work with."

We unfortunately did not have the possibility to work together. I would really have enjoyed learning from your plotting & modeling abilities :)

you are a great girl! I think you underestimate yourself more courage!

you make awesome dashboards!

Your dashboards are amazing and to communicate with.

You are like a quiet force!
And a quiet force!
The things you do when are amazing!
The things you are to brag more!
Your mind to them



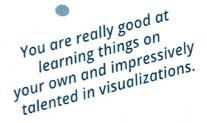
amazing set of skills and knowledge.

It was always a pleasure working with you in the pairing sessions, and thus could help each other out quite a lot. So i'm looking forward so seeing cool stuff from you! (nico)

The strong and silent type :-)
We didn't meet much but
I always felt that you understood everything.

don't work too hard and forget about yourself Unfortunately I never got to work with her.

But that is not necessary to understand
what a nice and smart person she is:)





Feb - Apr 2021

Carla
Carlos
Davain
Eldin
Hassan
Jonathan
Kathrin
Maria
Matthias
Max

Max Mena Nico Nicolai Paul Saša

susa Sebastian Sina Larissa Tereza













SERTIFIKAT

DIBERIKAN KEPADA

MARIA ULFAH

Atas partisipasinya dalam BRI Data Hackathon 2021 Jakarta, 17 Maret 2021



DANAR WIDYANTORO

Executive Vice President Enterprise Data Management Division









NANODEGREE PROGRAM

Introduction to Machine Learning with TensorFlow

CERTIFICATE OF COMPLETION

Awarded to

Maria Ulfah

SEBASTIAN THRUN

Founder, Udacity

September 25, 2022

Udacity has confirmed the participation of this individual in this program. Confirm program completion at confirm.udacity.com/GAGHKUV6



STATEMENT OF ACCOMPLISHMENT

#102.360

HAS BEEN AWARDED TO

Maria Ulfah

FOR SUCCESSFULLY COMPLETING

Data Scientist with R Track

COMPLETED ON

SEP 20, 2019



A

Jonathan Cornelissen, CEO



STATEMENT OF ACCOMPLISHMENT

#13311754

HAS BEEN AWARDED TO

Maria Ulfah

FOR SUCCESSFULLY COMPLETING

Analyzing Social Media Data in Python

May 14, 2020







STATEMENT OF ACCOMPLISHMENT

HAS BEEN AWARDED TO

Maria Ulfah

FOR SUCCESSFULLY COMPLETING

Data Analyst with R Track





