

Faizan Zafar

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EDUCATION

RWTH Aachen University

Master of Science in Data Science

Aachen, DE

Apr. 2019 – Mar. 2022

National University of Sciences and Technology (NUST)

Bachelor of Engineering in Software Engineering

Islamabad, PK

Sep. 2014 – Jun 2018

WORK EXPERIENCE

Intern

Mar. 2021 – Sep 2021

Celonis

Munich, DE

- Working in Data Analytics & Product Management

Graduate Student Assistant

Oct. 2019 – Mar. 2021

Cybernetics Lab @ RWTH

Aachen, DE

- Developed and statistically analysed multiple technology acceptance frameworks in the contexts of e-commerce and care work
- Designed fine-grained classification and clustering models on e-commerce data
- Examined online business models and extracted business model patterns using innovation management principles

Assistant Software Engineer

Sep. 2018 – Mar. 2019

CureMD Healthcare

Lahore, PK

- Supported the front-end development of the scheduling & appointment management module of the *CureMD* web application
- Extracted and prepared data for visualization, reporting and analysis purposes

Research Intern

Sep. 2017 – May 2018

Speech and Language Technology Research Group @ NUST

Islamabad, PK

- Implemented predictive modelling techniques on clinical data of patients exhibiting diabetes symptoms
- Performed statistical analyses and data visualizations on the *PIMA* dataset

Intern

Jul. 2017 – Sep. 2017

Centre for Economic Research in Pakistan

Lahore, PK

- Developed a prototype of a Management Information System (MIS) targeted for low-cost private schools
- Documented the functional requirements and specifications of the MIS

Intern

Jun. 2016 – Aug. 2016

InveGix Technologies

Islamabad, PK

- Built and deployed the company's blog
- Drafted test cases and user guides for the *StarCode* POS & Inventory application

PROJECTS

Seminar: Selected Topics in Process Mining | *PM4PY*, *ProM*

Oct. 2020 – Feb. 2021

- Prepared a Term Paper and Tool Demonstration on *Removing Implicit Places Using Regions for Process Discovery*

A Python Extension to Simulate Petri nets in Process Mining | *PM4PY*, *SimPy*

Apr. 2020 – Aug. 2020

- Programmed a tool in Python which uses an event log to directly generate a simulated event log
- Implemented additional options for users to specify the duration of activities and the arrival rate

Predictive Analytics in Healthcare for Diabetes Prediction | *Scikit-learn*, *TensorFlow*

Sep. 2017 – May. 2018

- Developed an application in Python which computes the probability of occurrence of diabetes based on specified clinical indicators
- Produced visualizations for analytics derived from patients' electronic health records

TECHNICAL SKILLS

Programming: Python, R, SQL, PQL, PHP, JavaScript, HTML, CSS, Bootstrap

Data Analysis / BI: SPSS, Tableau, SmartPLS, Celonis EMS, RapidMiner, Jupyter, NumPy, Pandas, Seaborn, SciPy

Machine Learning: Regression, Classification, Clustering, Data Mining, Decision Modelling

Developer Tools: Git, VSCode, Visual Studio, PyCharm, RStudio

Productivity Tools: \LaTeX , Microsoft Office, Google Workspace, Trello, Visio, Photoshop, WordPress

EXTRACURRICULAR ACTIVITIES

Participant @ Innovation Days 2020: Project ideation to improve daily activities of people with special needs through innovative systems

Participant @ Trivago Tech Camp 2019: Worked on a text mining project entitled *Clustering Accommodation Types*

Teaching Assistant @ NUST: TA for undergraduate level courses: *Introduction to Programming* and *Web Engineering*

LANGUAGE SKILLS

English: C2 – Advanced Proficiency

German: B1 – Intermediate Proficiency

Urdu: Native