

# Faizan Zafar

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## EDUCATION

### RWTH Aachen University

*Master of Science in Data Science*

Aachen, DE

*Apr. 2019 – Present*

### National University of Sciences and Technology (NUST)

*Bachelor of Engineering in Software Engineering*

Islamabad, PK

*Sep. 2014 – Jun 2018*

## WORK EXPERIENCE

### Graduate Student Assistant

*Cybernetics Lab @ RWTH*

Oct. 2019 – Present

*Aachen, DE*

- Developing a comprehensive research framework which statistically analyses and explains the key drivers of the intention of German consumers to use online grocery shopping
- Designing fine-grained classification and clustering models for online grocery shopping data
- Examining the structure of current business models using the innovation management approach of business model patterns

### Assistant Software Engineer

*CureMD Healthcare*

Sep. 2018 – Mar. 2019

*Lahore, PK*

- Supported the front-end development of the medical scheduling & appointment management module
- Extracted and transformed data for visualization, reporting and analysis purposes

### Research Intern

*Speech and Language Technology Research Group @ NUST*

Sep. 2017 – May 2018

*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

*Center for Economic Research in Pakistan*

Jul. 2017 – Sep. 2017

*Lahore, PK*

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

### Intern

*InveGix Technologies*

Jun. 2016 – Aug. 2016

*Islamabad, PK*

- Built and deployed the startup's blog
- Drafted test cases and user guides for the startup's POS 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*

### Discrete Event Simulation of Processes Using Event Logs | *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 end-users to specify duration and arrival rate of process activities

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

Sep. 2017 – May. 2018

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

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, PHP, JavaScript, HTML, CSS, Bootstrap

**Data Science Tools:** Jupyter, SPSS, Tableau, SmartPLS, ProM, Celonis, RapidMiner

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

**Productivity Tools:** L<sup>A</sup>T<sub>E</sub>X, Office 365, Google Workspace, 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 full-time on a text mining project entitled *Clustering Accommodation Types*

**Teaching Assistant @ NUST:** TA for undergraduate level courses *Fundamentals of Computer Programming* and *Web Engineering*

**Organizer @ MLH Local Hack Day:** Conducted a bug-fixing workshop in college about how open-source communities work

## LANGUAGE SKILLS

**English:** C2 – Advanced Proficiency

**German:** B1 – Intermediate Proficiency

**Hindi:** Native

**Urdu:** Native