

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

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

Data Analysis / BI: Jupyter, SPSS, Tableau, SmartPLS, ProM, Celonis, RapidMiner

Machine Learning: Linear/Logistic Regression, CART, Naïve Bayes, kNN, SVM, Random Forest, Adaboost, k-means, PCA

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

Productivity Tools: L^AT_EX, 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