Faizan Zafar

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EDUCATION

RWTH Aachen University — Aachen, DE
Master of Science in Data Science — *Apr. 2019 – Present*

National University of Sciences and Technology (NUST) — Islamabad, PK
Bachelor of Engineering in Software Engineering — *Sep. 2014 – Jun 2018*

WORK EXPERIENCE

Graduate Student Assistant — Oct. 2019 – Present
Cybernetics Lab @ RWTH — *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 — Sep. 2018 – Mar. 2019
CureMD Healthcare — *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 — 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
Center 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 for the MIS

Intern — Jun. 2016 – Aug. 2016
InveGix Technologies — *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:	SPSS, Tableau, SmartPLS, ProM, Celonis, RapidMiner, Jupyter, NumPy, Pandas, Seaborn, SciPy
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:	LaTeX, 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