

Raza Ahmed

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SEX: MALE | DATE OF BIRTH: 25/12/1995

EDUCATIONAL RESEARCH

04/2020 – 11/2020

MASTER THESIS, UNIVERSITY OF ROSTOCK

FOCUS: PYTHON, NLP, WIKIPEDIA DUMP, SPARQL, WIKIDATA, XML

Topic: Identifying gender bias in Wikipedia by use of Natural Language Processing.

- Extraction of Wikipedia dump using XML parser in Python (Web Scraping).
- Use of Natural Language Processing (NLP) various pre-processing steps to reduce noise in data.
- Extraction of entities using Named Entity Recognition (NER).
- Creating a SPARQL QUERY and linking entities to the knowledge base (Wikidata) using Entity Linking (EL) technique.
- Visualization of the revision history of Wikipedia articles using Plotly.

04/2019 – 09/2019

SPECIALIZATION MODULE, UNIVERSITY OF ROSTOCK

FOCUS: PYTHON, INERTIAL MEASUREMENT UNIT (IMU), SENSOR FUSION, ALGORITHM

Topic: Investigation of Motion-Sickness in Virtual Reality.

- Analysis of problems caused by Virtual Reality (VR), specifically investigation of errors caused by the Inertial Measurement Unit (IMU).
- Obtaining gyroscope and accelerometer data using the Cubic Projector application and using Quaternion to express orientation data.
- Inertial Measurement Unit (IMU) error reduction algorithm was developed using Sensor Fusion technique.

05/2017 – 11/2017

BACHELOR THESIS, NED UNIVERSITY OF ENGINEERING AND TECHNOLOGY

FOCUS: ETAP, ELECTRICAL SYSTEMS, ARC FLASH

Topic: Perform Arc Flash and Star protective device coordination on Etap of a Power System.

- Performed Arc flash and star protective coordination on power systems of a private company and suggested methods to improve the performance of their systems.

PROJECTS

02/2021 – 03/2021

Python for Data Science and Machine Learning Bootcamp

- Data visualization using Seaborn, Pandas, Plotly, and Matplotlib libraries.
- Data pre-processing and feature engineering.
- Usage of different machine learning models such as Linear/ Logistic Regression, KNN, SVM, Random Forest, etc.
- Completed different projects using Kaggle datasets.

05/2021 --06/2021	The Complete SQL Bootcamp 2021: Go from Zero to Hero <ul style="list-style-type: none"> • Creating databases and tables. • Selecting, joining, and grouping of tables. • Using conditional expressions and mathematical expressions on tables.
10/2021	Introduction to Containers w/ Docker, Kubernetes & OpenShift (Certification from Coursera)

GENERAL / IT KNOWLEDGE

IT knowledge	Programmming lan- guages	Python, Matlab, SQL, C-language, SPARQL
	Tools	Tableau, PyCharm, Jupyter Notebook, Google Colab, Kaggle, Docker, Kubernetes MS Office, Gitlab, Latex
	Methods	Machine Learning, Deep Learning, Reinforcement Learning, Time Series Analysis, Natural Language Processing, Named Entity Recognition
	Libraries	Scikit-learn, Seaborn, Tensorflow, Numpy, Pandas, Matplotlib, Spacy, Flair, NLTK, Quaternion, Transformer, SPARQLWrapper, Plotly
Foreign languages	English	C1
	Deutsch	A2

EDUCATION

2018 – 2020	MSc Electrical Engineering specialization in Information Technology from University of Rostock, Germany <ul style="list-style-type: none"> • Focus: Natural Language Processing, Machine Learning, Artificial Intelligence, Embedded Systems, Real-time systems, Network Security
2013 – 2017	BE Electrical Engineering from NED University of Engineering and Technology, Pakistan <ul style="list-style-type: none"> • Focus: Power Electronics, Control systems, Communication systems, Calculus, and Microprocessor Systems