Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

👤 2 July, 1992

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Tech Skills

MachineLearning	DeepLearning	NLP
XAI	Fairness	LaTex	Spark	PyTorch
XGBoost	Tensorflow	MLOPs	MLFlow

| Pandas | Numpy | SKLearn | Dask |

| Docker | Kubernetes | Terraform | Ansible |
| GCP | aws | DigitalOcean | Ray | istio |

Python	NodeJS	Golang	R	Java
Spring	Hibernate	django	flask
fastAPI	NestJS	Angular	TypeScript

| MongoDB | PostgreSQL | MySQL | TSQL |

| Git | CI/CD | maven | gradle | Jenkins |
| Vagrant | Bash | UnitTesting | SonarQube |

Professional Certifications

🧍 GCP: Architecting with Google Compute Engine | Coursera Specialization 🌐

🧍 AWS: Ultimate AWS Certified Developer Associate 2021 | Udemy course on AWS 🌐

Professional Experiences

Jan '21 – Present	**Wissenschaftliche Mitarbeiter** Universitätsklinikum Magdeburg In charge of designing, building, and maintaining of a MEAN stack server, including machine learning model deployment.
Nov '17 – April '18	**DevOps/Full-Stack Developer** Orion Informatics Ltd. Developed and maintained web server in Typescript, Angular, Java, MSSQLServer, etc. Developed a CI pipeline with Docker, Groovy, TestNG, SonarQube, and Jenkins pipeline as code.
Nov '14 – Nov '17	**Back-End Developer** BizMotion Ltd. Designed, developed, maintained a business automation software in Java Spring, with Hibernate, PostgreSQL, etc.

Recent Projects

June '21 – Ongoing	**Propagation Style Analysis for Fake and Real News** Academic Research 🏷 Python, NetworkX, Ray, Docker, Kubernetes, XAI Scientific individual project on early detection of fake news based on propagation style in Twitter.
July '22 – Ongoing	**Web Scraping and Topic Modeling for Deutsche Rotes Kreuz (DRK)** DSSG-Berlin 🏷 Python, NLP, Web Scraping, Streamlit Web scraping and complete NLP analysis of partner websites of DRK.
Feb '22 – Ongoing	**Topic Modeling of a Multilingual Survey Corpus of Women's March Global** SWB 🏷 Python, Transformer, LDA, FastText A comparative topic modeling project for Statistics without Borders (SWB), using Transformer-based (Top2Vec, BERTopic) and traditional (LDA) algorithms.
Nov '21 – Ongoing	**COLIEE Dataset Challenge** Academic Research 🏷 PyTorch, Siamese Network, LSTM Semantic similarity based legal document retrieval using deep learning and NLP techniques.
April '21 – September '21	**Evolution of Weekly Avg. Sentiment due to COVID** Research Seminar 🏷 Python, Pandas, Numpy, Gensim, SciPy A seminar project to determine the change in sentiment due to COVID-19 pandemic
April '21 – Aug '21	**NL2SQL and Table Summarization** Academic Research 🏷 PyTorch, HuggingFace, Transformer, Java Scientific team project on the translation of natural language to SQL and table summarization
Dec '20 – July '21	**Fair Recommendation in Research	⃝** Academic Research 🏷 Python, Django, NetworkX, Docker Scientific team project to investigate the fairness issues of recommendations engines for scientific articles
Aug '20 – March '21	**Medical Image Registration using Deep Learning** Academic Research 🏷 PyTorch, UNet, Weights and Bias Scientific team project MRI image registration using DL.
June '20 – Aug '20	**Genre Detection of Gutenberg Corpus	⃝** Course Project 🏷 Python, Gensim, SVM, Ensemble Learning Genre detection using linguistic features of the highly imbalanced dataset of 19th century fictional literature.

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Volunteering Experience

- Volunteer Data Scientist,
  DSSG-Berlin, since June 2022 |🌐

- Volunteer Data Scientist, Statistics Without
  Borders, since Feb 2022 |🌐

- Academic Mentor, Faculty of Informatics,
  Otto-von-Guericke University
  June '22 – Present

- President, United Cultural Alliance, SUST.
  Nov '13 – Feb '14

- General Secretary, SUST Science Arena
  Dec '12 – Feb '14

- Sylhet Divisional Coordinator
  Science Popularizing Society, Bangladesh
  Jan '13 – Dec '14

Publications

Mar '22   **MICDIR: Multi-scale Inverse-consistent Deformable Image Registration using UNetMSS with Self-Constructing Graph Latent |** 🌐

Feb '22   **Abstract - Multi-scale UNet with Self-Constructing Graph Latent for Deformable Image Registration |** 🌐
ISMRM 2022

May '21   **Abstract - A Comparative Study of Deep Learning Based Deformable Image Registration Techniques |** 🌐
ISMRM 2021

June '21   **Book Contribution - Advances in Streamflow Forecasting — from Traditional to Modern Approaches |** 🌐
Elsevier Limited, Oxford, UK.

Educational Background

Oct '19 – Present   **M.Sc. in Data and Knowledge Engineering (Data Science)**
Otto-von-Guericke University of Magdeburg, Deutschland.
Running CGPA - 1.7

Feb '10 – Nov '14   **B.Sc. (Eng.) in Computer Science and Engineering**
Shahjalal University of Science and Technology
Sylhet, Bangladesh
CGPA - 2.1 (German Scale, standardized by Uni-Assist)