



# Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

- 2 July, 1992
- J.G.-Nathusius-Ring 8, 39106 Magdeburg.
- +49 176 37133755
- istiyaksiddiquee@gmail.com
- <http://istiyaksiddiquee.com>
- <https://www.linkedin.com/in/istiyaksiddiquee>
- <https://tinyurl.com/siddiquee-scholar>

## Tech Skills

- MachineLearning
- DeepLearning
- NLP
- XAI
- Fairness
- SHAP
- 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 - 5 Years+

- 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.





# Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

## 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

- Aug '22 **Telemedical Monitoring of Plantar Foot Temperature in Patients With Diabetes and High Risk for Limb Disorders: Smart Prevent Diabetic Feet Study (SPDF)** | 
- 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)