



# Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

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## Tech Skills

- MachineLearning
- DeepLearning
- NLP
- XAI
- Fairness
- LaTex
- Spark
- PyTorch
- Tensorflow
- MLOPs
- MLFlow
- KubeFlow
- Docker
- Kubernetes
- Terraform
- Ansible
- GCP
- aws
- DigitalOcean
- Helm
- istio
- Java
- Python
- NodeJS
- Spring
- django
- flask
- fastAPI
- NestJS
- Angular
- 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

## Volunteering Experience

- Volunteer Data Scientist, Statistics Without Borders, since Feb 2022
- Former General Secretary, SUST Science Arena, SUST, Sylhet, Bangladesh. From 2010 to 2014

## Professional Experiences

- Jan '21 – Present **Wissenschaftliche Mitarbeiter** Universitätsklinikum Magdeburg  
In charge of building and maintaining a MEAN stack server, related to a PhD study.
- Dec '20 **Python Developer** ReSale GmbH  
Built a high performant, memory efficient, multi-threaded framework for web scrapers, completely in Python
- 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 Academic Projects

- June '21 – Ongoing **Propagation Style Analysis for Fake and Real News**  
Analysis of fake and real news using verified Tweets as data source
- Nov '21 – Ongoing **COLIEE Dataset Challenge**  
COLIEE is a legal dataset competition. This project aims to participate in it.
- April '21 – September '21 **Evolution of Weekly Avg. Sentiment due to COVID |**   
A seminar project to understand the changing nature of sentiment due to COVID-19
- April '21 – Aug '21 **NL2SQL and Table Summarization**  
Scientific team project on natural language to SQL and table summarization
- April '21 – Dec '21 **Automating the deployment in GCP**  
A team project for automating the deployment to GCP using Terraform, Ansible, Docker
- Dec '20 – July '21 **Fair Recommendation in Research |**   
Scientific team project to investigate the fairness issues of recommendations engines.
- Aug '20 – March '21 **Medical Image Registration using Deep Learning**  
Scientific team project MRI image registration using DL.

## Publications

- 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**  
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 - 3.22