

# Hossain Shaikh Saadi

## Contact Information

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## Education

- |                           |                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| April 2018 - March 2022 - | <b>Master of Science in Data Engineering and Analytics</b><br>Technical University of Munich                                                       |
| April 2012 - July 2016-   | <b>Bachelor of Science in Computer Science and Engineering</b><br>Ahsanullah University of Science and Technology<br>CGPA-3.831 on a scale of 4.00 |

## Research Experiences

- ❖ **Master's Thesis at Machine Translation Group, CIS, LMU Munich**  
April 2021 - November 2021  
Supervisor: Prof. Dr. Alexander Fraser  
Advisor: Dr. Viktor Hangya  
Topic (thesis title not fixed yet): Parameter Efficient Finetune-based Cross-Lingual Contextualized Embeddings Alignment using Parallel Sentences and comparative study
  
- ❖ **Student Research Assistant at Machine Translation Group, Center for Information and Language Processing (CIS), LMU**  
October 2018 – Present  
Supervisor: Dr. Viktor Hangya, Prof. Dr. Alexander Fraser  
Working / Worked on: Bert vocabulary extension, Finetune-based Contextualized Embeddings Alignment, Bilingual Lexicon Induction (BLI), Cross-Lingual Lexical Substitution (CLLS), Suggesting word Translation in Context (SWTC), Bilingual Token Level Sense Retrieval.
  
- ❖ **Guided Research Project at CAMP Chair, Technical University of Munich**  
October 2019 – April 2020  
Supervisor: Prof. Dr. Nassir Navab  
Advisor: Dr. Shadi Albarqouni, Dr. Seong Tae Kim  
Topic: Understanding Medical Images for Reliable Medical Report Generation
  
- ❖ **Application Project at Social Computing Group, Technical University of Munich**  
October 2020 – March 2021  
Supervisor: Prof. Dr. Georg Groh  
Advisor: Edoardo Mosca  
Topic: Effects of User Features in Hate Speech Detection
  
- ❖ **Research Student**  
April 2015-December 2016  
Worked under the supervision of Dr. Mohammad Shafiul Alam Shuvo on Genetic algorithms, Evolutionary and Swarm Intelligence algorithms.

#### ❖ Undergraduate Thesis

**Topics:** Swarm Intelligence, Evolutionary and Genetic Algorithms.

**Supervisor:** Dr. Mohammad Shafiul Alam

**Dissertation:** Hybridization of Evolutionary and Swarm Intelligence Algorithms for Multimodal Function Optimization

**Status:** Accepted in an International Conference, International Conference on Electrical, Computer and Communication Engineering (ICECCE 2017).

### Technical Skills

- ❖ Programming Language: C (Good), Java (Good), Python (Good).
- ❖ Familiar deep learning framework: PyTorch
- ❖ Markup, Style Sheet and Scripting Languages: HTML, XML, XAML, CSS, JavaScript, Ajax, jQuery, PHP
- ❖ IDE: Visual Studio, Eclipse, NetBeans, Android Studio, Dev CPP, Code Blocks, MATLAB.
- ❖ Database: SQL Server, MySQL, SQLite, Oracle.

### Academic Awards

- ❖ Dean's List of Honor for maintaining CGPA 3.75 or above after 8<sup>th</sup> semester.

### Job Experience

- ❖ **Lecturer (Part-Time) of Department of Computer Science and Engineering at Ahsanullah University of Science and Technology**  
April 2017 – March 2018  
Courses Instructed: Digital Logic Design Sessional, Introduction to Computer Systems Sessional.

### Publications

#### ❖ Journal Paper

1. Mohammad Shafiul Alam, Raiyan Yusuf, Faria Alam, **Hossain Shaikh Saadi**, "*Experimental comparison between Differential Evolution and Artificial Bee Colony Algorithm: A Case Study with Continuous Problems*", International Journal of Applied Information Systems 10 (4) (2015) 35-39. ISSN: 2249-0868.

#### ❖ Conference Paper

1. Faria Alam, **Hossain Shaikh Saadi**, Mohammad Shafiul Alam, "*Self-adaptive Hybrid Model between Artificial Bee Colony Algorithm and Differential Evolution for Function Optimization Problem*", International Conference on Electrical, Computer and Communication Engineering (ICECCE 2017).

2. Faria Alam, **Hossain Shaikh Saadi**, Mohammad Shafiul Alam, “A Novel Comparative Study between Dual Population Genetic Algorithm and Artificial Bee Colony Algorithm for Function Optimization”, International Conference on Computer & Information Technology (ICCIT 2016).

## Practical Courses

- ❖ **Master Lab Course: Data Mining**  
Topic: Descriptive and Predictive Data Mining on Travis CI Builds Dataset.
- ❖ **Master Lab Course: Machine Learning in Medical Imaging**  
Topic: Semisupervised Medical Image segmentation using Contrastive Learning and Deep Generative Models.

## Seminar Courses

- ❖ **Master Seminar: Deep Generative Models**  
Topic: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets

## Graduate Courses

- ❖ Introduction to deep learning
- ❖ Natural Language Processing
- ❖ Information retrieval in high dimensional Data
- ❖ Foundation of Data Engineering
- ❖ User Modeling and Recommender Systems
- ❖ Business Analytics
- ❖ Applied Regression