Hossain Shaikh Saadi

Contact Information
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Education

April 2018 - March 2022 - **Master of Science in Data Engineering and Analytics**
Technical University of Munich

April 2012 - July 2016 - **Bachelor of Science in Computer Science and Engineering**
Ahsanullah University of Science and Technology
CGPA-3.831 on a scale of 4.00

Research Experiences

- **Master's Thesis at Machine Translation Group, Center for Information and Language Processing (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 Munich**
  October 2018 – Present
  Supervisors: 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, Advisors: 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: Prof. Dr. Mohammad Shafiul Alam
  Topic: Hybridization of Evolutionary and Swarm Intelligence Algorithms for Multimodal Function Optimization.

Technical Skills

- Programming Language: C, Java, Python
- Familiar deep learning framework: PyTorch
- Development: Git

Academic Awards

- Dean's List of Honor for maintaining CGPA 3.75 or above after 8th 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**
  - 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**
  - 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). Didn't include it in IEEE Xplore due to not attending the conference.

  - 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