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

- 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). (This paper was accepted in ICECCE 2017 and we registered for the conference but couldn't go due to some unavoidable circumstances and organizers didn't include it in IEEE Xplore due to not attending the conference, according to their policy)

- 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