

# Touhidul Alam



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Touhidul Alam

## Work Experience

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- 11.2020 - Present    AI Engineering Senior Analyst, **Accenture**, Munich
- Conversational AI standardization
  - Data repository PoV
  - Time-series data analysis and visualization
  - Anomaly detection on unsupervised log data
- 06.2019 - 08.2020    Research Assistant, **Fraunhofer IIS**, Erlangen
- Deep learning, Transfer learning, Information extraction
  - Master Thesis: A Domain-Adaptive Temporal Tagger for Voice Assistants.
- 06.2017 - 11.2018    Student Assistant, **Smart Digital GmbH**, Gerlingen
- Implemented a real-time anomaly detection system with time-series data (Python)
  - Worked on an in-house data management system (C#, SQL server)
- 03.2016 - 03.2017    Backend Developer, **Panacea Live Limited**, Dhaka, Bangladesh
- Developed Panacea Web system (PHP Laravel, Angular.js)
  - Developed a Facebook Messenger Chatbot for Panacea system

## Education

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- 04.2017 - 03.2020    M.Sc. in Computational Linguistics, Institute of Natural Language Processing, University of Stuttgart, Stuttgart
- Courses included: Deep Learning for Speech and Language Processing, Information Retrieval and Text Mining, Machine Learning for NLP, Statistical Machine Translation, Semantic Web, Data Engineering
  - Grade Average: 1.7
- 11.2011 - 12.2015    B.Sc. in Computer Science and Engineering, Islamic University of Technology (IUT), Dhaka, Bangladesh
- Courses included: AI and Expert Systems, Machine Learning, Algorithms, Data Structures, Graph Theory, Bioinformatics
  - CGPA: 3.65 on the scale of 4.00

## Skills & Competencies

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**Languages** English (Fluent), German (Beginner), Bengali (Native)

**Programming Languages** Python (Advanced), C# (Basic), Javascript (Basic)

**Other Skills** SQL, Unix system, Git, Cloud services, AWS

### Projects

- A Dependency Parser Implementation, **Statistical Dependency Parsing**: Transition-based Arc-Eager parser with Averaged perceptron. (Python)
- Dialogue Act Classification Using Neural Network, **Deep Learning for Speech and Language Processing**: classification from speech and text with an ensemble model. (Python, Keras)
- Document Level Emotion Detection in Tweets, **Computational Linguistics Team Laboratory**: emotion detection from tweets and twitter images using various classifiers. (Python)

### Publications

- Touhidul Alam, Alessandra Zarccone and Sebastian Padó. 2021. “New Domain, Major Effort? How Much Data is Necessary to Adapt a Temporal Tagger To the Voice Assistant Domain.” In: Proceedings of IWCS. ([pdf](#))
- Alessandra Zarccone, **Touhidul Alam**, and Zahra Kolagar. 2020. “Pate: A corpus of temporal expressions for the in-car voice assistant domain.” In Proceedings of The 12th Language Resources and Evaluation Conference (LREC). ([pdf](#))

### Online Certifications

- AWS Certified Cloud Practitioner (Amazon)

### Scholarship

- Received an Organization of Islamic Cooperation (OIC) Scholarship in Bachelor studies
- Received a merit scholarship in Secondary School Certificate (SSC)

### Extracurricular Activities

- Former treasurer of the Bangladesh Student Association (BSA), Stuttgart
- Former organizer and volunteer at the IUT National ICT Fest

**Interest** Traveling, cooking, playing board games

## References

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Prof. Dr. Sebastian Padó  
Chair of Theoretical Computational  
Linguistics, Institute for Natural Language  
Processing (IMS), University of Stuttgart  
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