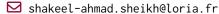
Shakeel Ahmad Sheikh

PhD Student, Inria Research









Research Interests

Artificial Intelligence, Natural Language Processing, Deep Learning, Visual Speech Processing, Health Informatics

Education

2019 – 2023 Ph.D., Universite De Lorraine, Multispeech, Inria Research, France.

Thesis title: Identifying Speech Disorders (Stuttering) in Speakers with Stuttering, and its Rehabilitation, using Deep Learning.

2018 – 2019 M.S. Computer Science, Grenoble Alps University, France.

Thesis title: Neural Machine Translation in Low Resource Settings Using pre-trained Contextual Embeddings.

2017 – 2019 M.S. Computer Science, Istanbul University, Turkey.

Thesis title: Intelligent Clustering of Authentic Religious Texts based on Contextual Similarity Using Deep Learning, CGPA: 3.67/4, Rank 1.

Bachelor of Technology, University of Kashmir, India.

Computer Science & Engineering, CGPA: 83.48/100, Rank 1, Gold Medalist.

Courses and Summer Schools

Deep Learning & NLP Summer Schools

July-2022 DeepLearn Summer School 2022 DeepLearn2022, Spain.

Organized by: ULPGC, Universitat Rovira i Virgili, IRDTA, Gran Canaria, Spain.

Jan -2021 Advanced Language Processing School 2021, France.

Organized by: LIG (Univ. Grenoble Alpes) and Naver Labs Europe, France.

July-2020 Lisbon Machine Learning Summer School 2020, LxML2020, Portugal.

Organized by: IST, INESC-ID, Unbabel, Priberam Labs and Cleverly, Spain.

Aug-2020 Oxford Machine Learning Summer School 2020 OxML2020, UK.

Organized by: AI for Global Goals and in partnership with Oxford Saïd Business School, Oxford Deep Medicine Program, and Canada CIFAR, UK.

Online Courses

Apr-2020: Natural Language Processing in TensorFlow by deeplearning.ai on Coursera, Certificate

Deep Neural Networks with PyTorch with IBM on Coursera with IBM on Coursera, Certificate

Sep-2019: Convolutional Neural Networks in TensorFlow, deeplearning.ai Certificate

Aug-2019: Introduction to TensorFlow for AI, ML, and DL, deeplearning.ai Certificate

Oct-2018: Machine Learning by Stanford University on Coursera, Certificate

Sep-2018: Neural Networks and Deep Learning by deeplearning.ai on Coursera, Certificate

Aug-2017: A Crash Course in Data Science by Johns Hopkins University Certificate

Work Experience

Employement History

Jan-2019-Jun-2019: **NLP Internship**, Grenoble, France.

LIG Research Lab, Neural Machine Translation in Low Resource Settings Using Pre-Trained Contextual Embeddings.

2015–2016: **Database cum QAC Engineer**, JK, India.

BQE Software Inc..

Work Experience (continued)

Projects

2019:

Robotics and IoT: Balloon Detection and Obstacle Avoidance in C++ & ROS.

Human Computer Interaction Project: Hotel for Pets.

Regalia Database Design and Schema in ORACLE

Chat Application in JAVA.

NachOS Operating System Design in C & C++.

Babble: Thread Server in C.

Virtual Memory Allocator in C.

StutterNet (Private Repo) in Python and PyTorch.

Research Publications

Journal Articles

- Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2022a). Advancing Stuttering Detection via Data Augmentation Class-Balanced Loss and Multi-Contextual Deep Learning. Under Review in Journal of IEEE Biomedical Informatics.
- Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2022c). Machine learning for stuttering identification: Review, challenges and future directions. *Neurocomputing* (*IF* = 5.8), 514, 385–402. **♂** doi:https://doi.org/10.1016/j.neucom.2022.10.015
- 3 Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2022e). Stuttering Detection Using Speaker Representations and Self-supervised Contextual Embeddings. Under Review in Int. Journal of Speech Technology.

Conference Proceedings

- Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2022b). End-to-End and Self-Supervised Learning for ComParE 2022 Stuttering Sub-Challenge. In Proc. of 2022 30th ACM International Conference on Multimedia (ACMMM2022). Retrieved from from thtps://hal.archives-ouvertes.fr/hal-03728331
- 2 Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2022d). Robust Stuttering Detection via Multi-task and Adversarial Learning. In Proc. of 2022 30th European Signal Processing Conference (EUSIPCO). Retrieved from ♦ https://hal.archives-ouvertes.fr/hal-03629785
- 3 Shakeel A. Sheikh, Sahidullah, M., Hirsch, F., & Ouni, S. (2021). StutterNet: Stuttering Detection Using Time Delay Neural Network. In *Proc. of 2021 29th European Signal Processing Conference (EUSIPCO)* (pp. 426–430). **𝚱** doi:10.23919/EUSIPC054536.2021.9616063

Technical Reports

Shakeel A. Sheikh, & Besacier, L. (2019). Neural Machine Translation in Low Resource Settings using Pre-Trained Contextual Embeddings, LIG, Grenoble, France.

Skills

Languages

Kashmiri (Mother Tongue), English, Turkish, Arabic (Basic), Urdu, French (Learning).

Coding

PYTHON, C, C++, JAVA, MySQL, TCL, HTML, Fortran, LATEX.

Tools

PyTorch, TensorFlow, Git, Matlab, Octave, Numpy, Keras, Pandas, Scipy, Sckit-Leaarn, NLTK, OpenNMT, OpenMPI, ROS (basics)

Honours and Awards

2021



Highest Percentage in B.Tech CSE (2011-2015), University of Kashmir.

Honours and Awards (continued)

2019 French National Research Agency (ANR) Scholarship

PhD Research, Universite de Lorraine, CNRS, Inria, LORIA, France.

■ University Scholarship

PhD Research, China University of Petroleum, China.

Nomination for Chinese Government Scholarship, MS

Nomination for Korean Government Scholarship, MS

Winner of Turkish Government Scholarship

MS, Istanbul University, Turkey.

2015 Gate Exam

Qualified Nationwide Gate in Computer Sciences.

2010 HSC Rank 2nd in Mathematics

Achieved 2^{nd} Rank in Mathematics in HSC (Kashmir State).

Professional Service

Reviewer 1. IEEE/ACM Transactions on Audio, Speech, and Language Processing, 2. Circuits, Systems, and Signal Processing

Volunteer 1. Interspeech 2022

References

Available on Request