

Shakeel Ahmad Sheikh

PhD Student, Inria Research

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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.
- 2011 – 2015 **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

Employment 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

- 1 **Sheikh, Shakeel Ahmad**, 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*.
- 2 **Sheikh, Shakeel Ahmad**, Sahidullah, M., Hirsch, F., & Ouni, S. (2021a). Machine Learning for Stuttering Identification: Review, Challenges & Future Directions. **Accepted** in *Journal of Neurocomputing (IF = 5.77)*. Retrieved from  <https://arxiv.org/abs/2107.04057>




Conference Proceedings

- 1 **Sheikh, Shakeel Ahmad**, 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  <https://hal.archives-ouvertes.fr/hal-03728331>
- 2 **Sheikh, Shakeel Ahmad**, Sahidullah, M., Hirsch, F., & Ouni, S. (2022c). Introducing ECAPA-TDNN and Wav2Vec2.0 Embeddings to Stuttering Detection. In *Preprint 2022*. Retrieved from  <https://arxiv.org/abs/2204.01564>
- 3 **Sheikh, Shakeel Ahmad**, 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>
- 4 **Sheikh, Shakeel Ahmad**, Sahidullah, M., Hirsch, F., & Ouni, S. (2021b). StutterNet: Stuttering Detection Using Time Delay Neural Network. In *Proc. of 2021 29th European Signal Processing Conference (EUSIPCO)* (pp. 426–430).  doi:[10.23919/EUSIPCO54536.2021.9616063](https://doi.org/10.23919/EUSIPCO54536.2021.9616063)

Technical Reports

- 1 **Sheikh, Shakeel Ahmad**, & 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, SCIKIT-LEARN , NLTK, OpenNMT, OpenMP, OpenMPI, ROS (basics)

Honours and Awards

- 2021  **Gold Medalist**
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.
- 2016  **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 2nd Rank in Mathematics in HSC (Kashmir State).

References

Available on Request