

# Shakeel Ahmad Sheikh

PhD Student, Inria Research

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🌐 <http://www.linkedin.com/in/sheikhshakeel608/>



## 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)

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### Projects


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- 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

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### 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 = 5.17)*. 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

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Languages	 Kashmiri (Mother Tongue), English, Turkish, Arabic (Basic), Urdu, French (Learning).
Coding	 <b>PYTHON</b> , C, C++, JAVA, MySQL, TCL, HTML, Fortran, $\text{\LaTeX}$ .
Tools	 <b>PYTORCH</b> , TensorFlow, Git, Matlab, Octave, <b>NUMPY</b> , Keras, Pandas, Scipy, <b>SCIKIT-LEARN</b> , NLTK, OpenNMT, OpenMP, OpenMPI, ROS (basics)

## Honours and Awards

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- 2021  **Gold Medalist**  
*Highest Percentage in B.Tech CSE (2011-2015), University of Kashmir.*

## Honours and Awards (continued)

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- 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 2<sup>nd</sup> in Mathematics**  
*Achieved 2<sup>nd</sup> Rank in Mathematics in HSC (Kashmir State).*

## References

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Available on Request