Shakeel Ahmad Sheikh

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Research Interests:

Artificial Intelligence, Natural Language Processing, Deep Learning, Visual Speech Processing, Mathematics

Education:

- *2019-2022*: **PhD**, NLP, Multispeech Team, INRIA-LORIA, *Universite de Lorraine*, Nancy, France.
    - *Thesis:* **Identifying speech disorders (stuttering) in speakers with stuttering, and its rehabilitation, using Deep Learning**
- *2017-2019:* **MS**, Informatics, CGPA: 3.67/4, Rank 1, *Istanbul University*, Turkey.
    - *Thesis:* Intelligent Clustering of Authentic Religious Texts based on Contextual Similarity Using Deep Learning
- *2018-2019:* **M1**, Informatics, *Grenoble Alpes University*, France.
    - *Project:* Neural Machine Translation in Low Resource Settings Using pre-trained Contextual Embeddings
- *2011-2015:* **B.Tech**, Computer Science Engineering, CGPA: 83.48/100, Rank 1, **Gold Medalist**, *University of Kashmir*, India

Deep Learning & NLP Summer Schools:

- *Aug-2020*: **Oxford Machine Learning Summer School 2020** OxML2020 Organised by AI for Global Goals and in partnership with Oxford Saïd Business School, Oxford Deep Medicine Program, and Canada CIFAR
- *July-2020*: **Lisbon Machine Learning Summer School 2020**, LxML2020
  Organized jointly by IST, the Instituto de Telecomunicacoes, the Instituto de Engenharia de Sistemas e Computadores, Investigacao e Desenvolvimento em Lisboa (INESC-ID), Unbabel, Priberam Labs and Cleverly
- *Jan-2021*: **Advanced Language Processing School 2021** ALPS2021
  Organized by LIG (Univ. Grenoble Alpes) and Naver Labs Europe

Online Courses:

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

- *Jan-2019-Jun-2019:* Internship, Getalp group of Laboratoire d´Informatique de Grenoble (LIG),Neural Machine Translation in Low Resource Settings Using Pre-Trained Contextual Embeddings
- *2015–2016:* Database cum QAC Engineer, BQE Software Inc.

Projects:

- 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

Professional Skills:

- *Programming Languages:* **Python**, C, C++, Java, MySQL, Tcl, Html, Fortran
- *Tools:* **PyTorch**, TensorFlow, Git, Matlab, octave, **Numpy**, keras, **Pandas**, scipy, **Sckit-Leaarn**, nltk, OpenNMT, OpenMP, OpenMPI, ROS(basics)

Honours and Awards:

- **French National Research Agency (ANR) Scholarship** for PhD Research, Universite de Lorraine
- University Scholarship for PhD, China University of Petroleum (East China).
- Nomination for Chinese Government Schorlaship (MS).
- Nomination for Korean Government Scholarship (MS).
- Turkey Burslari Scholarship Winner (MS).
- Qualified Nationwide Gate in Computer Science.
- Gold Medalist, 1st Rank, Highest Percentage in B.Tech CSE *University of Kashmir, Srinagar, India*
- 1st Rank, High School, Sheikh ul Aalam Memorial School, Srinagar, India
- Achieved 2nd Rank in Mathematics in HSC (Kashmir State)

Publications

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **End-to-End and Self-Supervised Learning for ComParE 2022 Stuttering Sub-Challenge**. *submitted to ACM MM, 2022*.

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **Introducing ECAPA-TDNN and Wav2Vec2.0 Embeddings to Stuttering Detection**. *submitted to IEEE SLT, 2022*.

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **Robust Stuttering Detection via Multi-task and Adversarial Learning**. *submitted to EUSIPCO, 2022*.

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **Machine Learning for Stuttering Identification: Review, Challenges & Future Directions**. *Under Review in Journal of Biomedical Informatics*.

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **Multi Contextual Stuttering Detection Using Deep Learning** . *working paper*.

- **Shakeel A. Sheikh**, Md Sahidullah, Fabrice Hirsch, Slim Ouni. **StutterNet: Stuttering Detection Using Time Delay Neural Network**. EUSIPCO 2021 – 29th European Signal Processing Conference, Aug 2021, Dublin, Ireland.

- **S.A.Sheikh**, L. Besacier. *Neural Machine Translation in Low Resource Settings Using Pre-Trained Contextual Embeddings*, LIG, Grenoble, France

References

Slim Ouni	Md Sahidullah	Dawood A. Khan	Ajaz Ahmad Bhat
Associate Professor	Research Scientist	Assistant Professor	Assistant Professor
Universite De Lorraine	Inria, Nancy, France	Kashmir University	Universiti Brunei Darussalam