Venkatesh **S. Kadandale**

PhD · Computer Vision and Machine Listening · Software Developer · Musician

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Education

Universitat Pompeu Fabra (UPF)   *Barcelona, Spain*

PhD in Information and Communication Technologies   *Oct. 2018 - Sep. 2022*

Grade: **Excellent** with "**Cum Laude**"

Thesis: Towards audio-visual deep learning methods for singing voice separation and lip synchronization

Universitat Pompeu Fabra (UPF)   *Barcelona, Spain*

Master's Degree in Sound and Music Computing   *Sep. 2017 - Aug. 2018*

Cgpa: **8.48/10.00**

Thesis: Musical Instrument Recognition in Multi-Instrument Audio Contexts

National Institute of Technology Karnataka Surathkal (NITK)   *Surathkal, India*

B.Tech in Electrical and Electronics Engineering   *Jul. 2011 - May. 2015*

Cgpa: **9.01/10.00**

Skills

Areas

Generative AI, LLMs, Text-to-Speech, Computer Vision, Multi-modal AI, Deep Learning, R&D

Programming

Python, PyTorch, AWS, GCP, Docker, MLOps, JAVA (*Oracle Certified Associate, Java SE 7 Programmer*)

Languages

English (*Level C1*), Spanish (*Level A2*), Italian (*Basic*), Hindi, Kannada, Konkani

Experience

Quantic Brains   *Madrid (Remote), Spain*

AI Engineer   *Feb. 2023 - Oct. 2024*

Design and implementation of applications in the domain of speech and text
* Delivered to production generative AI Text-To-Speech models in multiple languages.
* Implemented real-time voice cloning and voice conversion models.
* Designed and developed automation tools for speech dataset review and pre-processing.
* Developed and shipped to production API for real-time phoneme-viseme alignment in speech audios with multi-language support.

* Developed Web UIs for hosting demos.

Universitat Pompeu Fabra   *Barcelona, Spain*

Teaching   *Jan. 2019 - Mar. 2022*

60+ hours of teaching Calculus II and Linear Algebra course at undergraduate level.

Altisource   *Bengaluru, India*

Software Engineer   *Jun. 2015 - Jul. 2017*

* Gained considerable experience in JAVA as a backend developer in a fast paced startup environment.
* Developed REST APIs which served as backend for the software webpages.
* Developed a resilient multithreaded data ingestion system to receive client data using Spring Integration.
* Worked in next generation big data technologies like Kafka and Samza.
* Developed webpages using Angular 2.

Honors & Awards

2018	**INPhINIT Doctoral Fellowship**, La Caixa Foundation
2017	**Masters Tuition Fee Waiver**, Universitat Pompeu Fabra
2016	**Altisource All Stars Award**, Altisource Talent Hunt
2015	**Best Talented Student in Music**, NITK batch of 2015

Publications

INTERSPEECH 2022   *Incheon, S. Korea*

VocaLiST: An Audio-Visual Synchronisation Model for Lips and Voices   *Sep. 2022*

Venkatesh S. Kadandale, Juan F. Montesinos, Gloria Haro

ECCV 2022   *Tel-Aviv, Israel*

VoViT: Low Latency Graph-based Audio-Visual Voice Separation Transformer   *Oct. 2022*

Juan F. Montesinos, **Venkatesh S. Kadandale**, Gloria Haro

British Machine Vision Conference (BMVC) 2021   *Virtual*

A cappella: Audio-visual Singing Voice Separation   *Nov. 2021*

Juan F. Montesinos *****, **Venkatesh S. Kadandale ***, Gloria Haro

(** equal contribution*)

IEEE MMSP 2020   *Tampere, Finland*

Multi-channel U-Net for Music Source Separation   *Sep. 2020*

Venkatesh S. Kadandale, Juan F. Montesinos, Gloria Haro, Emilia Gómez

Presentation

CVPR Workshop Sight and Sound 2022   *New Orleans, USA*

Synchronisation of Lips and Voices   *Jun. 2022*

Venkatesh S. Kadandale, Juan F. Montesinos, Gloria Haro

CVPR Workshop Sight and Sound 2022   *New Orleans, USA*

Audio-visual Voice Separation Transformer   *Jun. 2022*

Juan F. Montesinos, **Venkatesh S. Kadandale**, Gloria Haro

CVPR Workshop Sight and Sound 2021   *Nashville, USA*

Estimating Individual A Cappella Voices in Music Videos with Singing Faces   *Jun. 2021*

Venkatesh S. Kadandale *, Juan F. Montesinos *****, Gloria Haro

(** equal contribution*)