Venkatesh **Shenoy K.**

PhD Fellow · 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. 2021*

La Caixa INPHINIT Research Fellow 2018

Universitat Pompeu Fabra (UPF)	*Barcelona, Spain*
Master's Degree in Sound and Music Computing	*Sep. 2017 - Aug. 2018*

Cgpa: **8.48/10.00**

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

Agile Software Development, Music Information Retrieval, Computer Vision, Machine Learning, Deep Learning, Big Data, Signal Processing, Natural-language Processing

Programming

Python, PyTorch, JAVA (*Oracle Certified Associate, Java SE 7 Programmer*), MATLAB, Pure Data, VHDL, AWK, Java Script, CSS, HTML

Languages

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

Experience

Universitat Pompeu Fabra	*Barcelona, Spain*
Teaching	*Jan.-Jul. 2019, Jan.-Jul. 2020*

Teaching duties for the Calculus II 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.

School of Computing, NUS (Prof. Chua Tat Seng)	*Singapore*
Research Assistant	*May. 2014 - Jul. 2014*

Explored a novel supervised learning approach to classify environmental sounds.

Speech and Audio Processing Lab, IISc (Prof. T. V. Sreenivas)   *Bengaluru, India*
SUMMER INTERN   *May. 2013 - Jul. 2013*

Investigated the "grammatical" structure of certain Rāgas in Carnatic music by examining stochastic models of successive notes, obtained from the textual transcripts of the rendering of different Rāgas.

Extracurricular Activity

Ethno Portugal   *Castelo de Vide, Portugal*
RESIDENT MUSICIAN   *15 Jul. 2019 - 26 Jul. 2019*

Represented Indian music in the Ethno World music chapter of Portugal during 2019.

Barcelona World Music Project (BWMP)   *Barcelona*
CORE MEMBER   *Sep. 2018 - Present*

Participated in cross-cultural music performances as a part of BWMP as a flautist.

Music Club, NITK   *Surathkal, India*
SECRETARY   *Jul. 2014 - May. 2015*

Oversaw musical nights.
Composed jingle for the university's annual cultural fest Incident.
Performed in musical events, playing wide range of instruments like Bansuri, Harmonium, Trumpet and Synthesizers.

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
2011	**28th Rank**, Karnataka CET Engineering 2011
2011	**73rd Rank**, Karnataka CET Medical 2011
2009	**0.1 % Merit**, Mathematics, AISSE Exam

Publications

Master's Degree Thesis   *Barcelona, Spain*
MUSICAL INSTRUMENT RECOGNITION IN MULTI-INSTRUMENT AUDIO CONTEXTS   *Sep. 2018*

Investigated automatic musical instrument recognition systems with traditional machine learning as well as deep learning methods.

IEEE MMSP 2020   *Tampere, Finland*
MULTI-CHANNEL U-NET FOR MUSIC SOURCE SEPARATION   *Sep. 2020*

Explored computationally cheaper models for estimating individual music sources present in a music clip.