



# Soumya Sai Vanka

Creator. Researcher. Thinker

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London, England

## SKILLS

Academic Writing, Audio Data Processing, Deep Learning, Data Visualisation, Qualitative Studies and Analysis, Regression and Classification, Public Speaking, Collaboration, Audio Engineering and Production, Saxophonist

## TOOLS

PyTorch, Keras, Scikit-Learn, Numpy, Pandas, PCA, Neural Nets, SSH, Linux Ubuntu, Python, C, C++, Docker, VST-SDK, Git, LaTeX, Kubernetes

## LANGUAGES

English - Proficient

Hindi, Telugu - Native Speaker

## AWARDS

UKRI AIM-CDT Award [2021-2025] [Fully funded PhD]

DST-Inspire Scholarship [2015-2020] [Funding for MSc and BSc by Govt. of India]

Merit Scholarship [2018] [Pondicherry University]

Eshwari Bai Gold Medal [2018] [Excellence in BSc]

Nomination All-rounder Gold Medal [2017] [SSSIHL]

SECL Study Support Excellence Scholarship [2013-2015]

## ABOUT ME

As a musician, songwriter, producer, and artist, I offer a unique perspective to AI research in multitrack mixing. My research approach is user-centric, incorporating real-world practices and involving prototyping and extensive user evaluations. With a background in Physics, I bring logical thinking to the table, and my participation in co-curriculars and team activities demonstrates my well-rounded skills for both individual and collaborative success. I am an active volunteer and thrive on exploring new topics, cultures, and traveling.

## EDUCATION

### PhD in AI and Music

Queen Mary University of London, UK : 09/2021 - Present

This project aims to explore the application of context-driven, user-centred, AI-based music mixing informed by expert practice. The project is funded under the AIM CDT by UKRI in collaboration with Steinberg Media Technologies GmbH.

Relevant Modules: Deep Learning for Music, Machine Learning, Recording and Production, Music Informatics

### Sound Engineering (Trainee)

Wavespot Studios, India : 07/2020 - 06-2021

Recording, Production, Mixing, Mastering,

### MSc Physics

Pondicherry Central University, India : 07/2018 - 06/2020

Relevant Courses: Non Linear Dynamics, Mathematical Physics (I and II)  
Grade: 8.89/10

### BSc Physics [Hons]

Sri Sathya Sai Institute of higher Learning, India : 06/2015 - 04/2018

Relevant Courses: Set theory, Multivariate Calculus, Differentiable Equations, Linear Algebra, Electronics [Digital and Analog], Mathematical Physics (I and II), [Python, C, C++, Scilab]  
Grade: 8.6/10

## RELEVANT WORK EXPERIENCE

### Steinberg Media Technologies GmbH

Part-time Trainee Intern : 08/2022-12/2022, 11/2023- Present

My roles involve training machine learning models with internal data. I am also briefly accustomed to plugin development and assist in prototyping research to technology.

## PUBLICATIONS

### Conference

[Adoption of AI technology in music mixing workflows: An investigation](#)

Soumya Sai Vanka, Maryam Safi, Jean-Baptiste Rolland, George Fazekas  
AES Europe, May 2023

### Journal

[The role of communications and reference songs in the mixing process: Insights from professional mixing engineers](#)

Soumya Sai Vanka, Maryam Safi, Jean-Baptiste Rolland, George Fazekas  
Journal of Audio Engineering Society, Nov 2023

### Book

[Deep learning for automatic mixing](#)

Christian Steinmetz, Soumya Sai Vanka, Marco Martinez, Gary Bromham  
ISMIR, Dec 2022

### Workshop

[AI for multitrack mixing](#)

Soumya Sai Vanka, Christian Steinmetz, Marco Martinez, Gary Bromham, Junghyun Koo, Brecht DeMan, Angeliki Mourgella  
AES Convention NYC, Oct 2023