Soumya Sai Vanka

Creator.Researcher.Thinker

+44 7825 205482

www.saisoumya.com

soumyasaiv@gmail.com

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: an insight 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