# Sai Eeshwar D

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○ GitHub Profile
in LinkedIn Profile

MSc Computer Science - Intelligent Systems
Trinity College Dublin, Ireland

## EDUCATION

- **Bachelor of Technology in Computer Science and Engineering(AI & ML)** *2021-25*
*Vellore Institute of Technology, Amaravati* CGPA: 8.72

## PUBLICATIONS AND PATENTS

- **Cetacean Species Classification Model**

  – Developed a multi-class classification model to identify vocalizations of 93 cetacean species.
  – Optimized bioacoustic analysis accuracy using advanced neural network architectures.
  – Led end-to-end model development, training, and evaluation.
  – Technologies: CNN, CRNN, SoundNet, Bioacoustics, Python, TensorFlow.
  – **Publication: 2023 7th International Conference on Computer Science, Information Technology and Systems Science (CSITSS)**, https://ieeexplore.ieee.org/abstract/document/10333321.
  – **Patent**: A System and Method for Classification of Marine Animal Species Using Deep Learning, Patent No. 202341063223, October 6, 2023.

## PROJECTS

- **Analysis of Social Media Sentiments in the Russia-Ukraine Conflict using NLP and ML Methods**

  – Applied advanced NLP techniques including BERT and VADER for robust sentiment analysis.
  – Achieved 90% accuracy in sentiment classification across large-scale social data.
  – Contribution: Machine Learning Algorithms, Sentiment Analysis.
  – Technologies Used: BERT, VADER, Python, various ML models.

- **WAV2Lip-HQ Inference**

  – Implemented state-of-the-art lip synchronization for video dubbing and deepfakes.
  – Achieved real-time performance with 30 FPS output and high fidelity at 4K.
  – Contribution: Development, Implementation.
  – Technologies Used: Python, PyTorch.

## EXPERIENCE

- **Virginia Tech India - Research Intern** *May - July 2023*

  On-Site
  – Proficient in applying audio signal processing and machine learning techniques for heart murmur detection.
  – Strong knowledge of feature extraction methods, including spectrogram analysis and frequency-domain representations, to distinguish murmurs from noise.
  – Hands-on experience in developing and evaluating classification models for real-time detection using Python and deep learning frameworks.

- **GoWarm - Generative AI Intern** *Dec 2022 - Feb 2023*

  Hybrid
  – Designed and implemented a multi-agent architecture using CrewAI and Python to match LinkedIn user needs with client products, enabling targeted warm calls for improved lead generation.
  – Developed and tested API endpoints with Postman in collaboration with a team member, ensuring seamless integration with client outreach systems.
  – Technologies: Python, CrewAI, Postman, API Development.

## TECHNICAL SKILLS AND INTERESTS

**Technologies**: Python, Java, SQL, Git, TensorFlow, PyTorch, LaTeX
**Frameworks**: TensorFlow, PyTorch, OpenCV, Scikit-learn, Keras, NLTK, SpaCy
**Spoken Languages**: English, Hindi, Kannada, Telugu, Tamil
**Areas of Interest**: Machine Learning, Natural Language Processing, Computer Vision, AI for Social Good

## POSITIONS OF RESPONSIBILITY

- **Event Lead** - Open Source Community *June 2023 – May 2024*

  – Organized large-scale events including MLH Hackathon, GITTY UP: Learn Git & GitHub, React Bootcamp, TechEden 2.0, Cyber Syndicate, SDG Open Hack, TechCast Ep. 4, and Software Freedom Fest (SFF).
  – Led planning and execution efforts, collaborating with teams to ensure smooth delivery of technical workshops and hackathons.