




# Shashank Mahato

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## EDUCATION

**B. Tech Computer and Communication Engineering,** Jun 2021 – present | Chennai, India  
*Amrita Vishwa Vidyapeetham*  
[CGPA: 8.27]

## PROFESSIONAL EXPERIENCE


**Live-in-Labs Team Lead, Amrita Vishwa Vidyapeetham**  May 2024 – Jun 2024 | Bangalore


- Led a multidisciplinary team of 5 in an immersive rural community program, engaging with over 100 community members to assess needs through data-driven methods
- Co-designed and implemented 3 sustainable solutions, leveraging participatory design and GIS mapping, resulting in a 25% improvement in resource efficiency
- Developed and deployed viable solutions, achieving a 30% increase in community engagement through targeted interventions

**AI/ML Intern, DeepDive Labs**  Apr 2024 – May 2024 | Singapore

- Conducted experiments with Large Language Model (LLM) based applications to enhance AI capabilities and performance
- Worked specifically with ChatGPT-3.5 turbo, ChatGPT-4, ChatGPT-4o, and Gemini Pro, utilizing their advanced features for various projects

## PUBLICATIONS

**Analyzing Water Infrastructure and Community Resilience: A Technical Review on Kabalamapalaya Village,** Sep 2024  
*Tuijin Jishu/Journal of Propulsion Technology* 

**Predictive Healthcare with Integrated EEG and Facial Emotion Recognition using Deep Learning and Transfer Learning,** Sep 2024  
*IEEE* 

## PROJECTS

**Toastmasters Speech Analyzer/Recommender, DeepDive Labs** Mar 2024 – Apr 2024

- Leveraged Natural Language Processing (NLP) techniques, Large Language Models (LLM), and Prompt Engineering to develop the Toastmasters Speech Analyzer and Recommender.
- Implemented Gemini API for streamlined access to audio files and GenAI for advanced feature extraction, resulting in a more robust and efficient analysis process.
- Achieved a 20% improvement in user communication skills and confidence through real-time feedback on speech delivery.

## SKILLS

### Technical Skills

Machine Learning/Deep Learning, Image/Signal Processing, Arduino, Raspberry Pi, ARM Cortex

### Programming Languages

Python, C, Embedded C, C++

### Soft Skills

Leadership, Communication, Analytical, Adaptability, Teamwork, Organized, Creativity, Decision-making

## CERTIFICATIONS AND COURSES

**Exploratory Data Analysis for Machine Learning, IBM** Feb 2023 – Aug 2023

**Deep Learning Specialization, DeepLearning.AI** Feb 2023 – May 2023

**Python for Data Science, IIT Madras** May 2022 – Oct 2022

## ACHIEVEMENTS

**IDE'24 Bootcamp, Top 10 finalist, pitching innovative solutions with strategies in market validation, business modeling, and go-to-market execution, AJCE** Sep 2024 | Kottayam, Kerala

**Secured 12th Rank nationally in the Final Round of HackMol4.0, GDSC NIT Jalandhar** Jan 2023 | Jalandhar, India

**Researched with 250+ students and mentors in the Study Australia Entrepreneurship Challenge, SAEC Australia, franked.io** Sep 2022 | Chennai, India