AMIT TALMALE

CONTACT

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SKILLS AND INTEREST

- **Soft Skills:** Problem Solving, Communication, Teamwork, Leadership, Management, Eager to learn
- **Programming**: Python, C, SQL
- **Machine Learning:** Tensorflow, Sklearn, Opencv, pandas, numpy, matplotlib, mediapipe
- **Tools:** Git, Github, VSCode, Pycharm, Hugging Face
- **Operating Systems**: Windows, Linux, WSL

EDUCATION

BTech-Undergraduate-Computer Science Engineering

JK LAKSHMIPAT UNIVERSITY, JAIPUR   2022-2026

CGPA = 8.09

12th Grade

HVN Public Sr. Sec. School

92.6%   2020-2021

WORK EXPERIENCE

Summer Research Intern

Indian Institute of Technology Ropar   May 2024 - July 2024

Guided by Prof. Sudarshan Iyengar (HoD, CSE)

- Led development of speech learning modules by analyzing TED Talk videos for audio modulation and audience engagement insights.
- Gained expertise in audio signal processing, machine learning, and research methodology through hands-on experimentation.
- Delivered outcomes including optimized speech analytics models and data-driven predictions for talk impact and popularity.

Undergraduate Teaching Assistant

JK Lakshmipat University   Aug 2024 - Present

- Mentored students in foundational Python and advanced DSA topics (trees, graphs, DP) through coding contests and upsolve sessions, emphasizing debugging, logical reasoning, and efficient coding practices.
- Enhanced my technical depth in core programming and algorithms while developing strong mentoring, communication, and problem-explanation skills.

PROJECT

LipReader Using CNN and LSTM

Tools: Python, Tensorflow, openCV, imageio, flask

- Developed a lip-reading model using CNN, BiLSTM, and CTC loss to transcribe spoken words from pre-recorded video clips.
- Deployed the system using Flask, allowing users to upload videos and receive decoded text output through a web interface.

Video Game Sales Analysis: Insights and Predictive Modeling

- Merged exploratory data analysis insights with machine learning techniques like KNN, K-means clustering, and Decision Tree Regression to predict video game sales patterns, facilitating strategic decision-making.
- Classification from regression improved accuracy notably, with Random Forest Classifier achieving 97% accuracy by considering categorical sales categories and key factors like release year and associations with Nintendo.

Certifications/ Awards

2 stars in Codechef

Ordered Data Structures - University of Illinois at Urbana-Champaign - Coursera

TCS-iON Career Edge – Young Professional – TCS Learning

The Structured Query Language (SQL) - University of Colorado Boulder – Coursera