RADHE SHYAM SALOPANTHULA

RESEARCHER | PRODUCT DEVELOPER

PhD Researcher in **Computational Linguistics** at **IIIT Hyderabad**, working on rich speech processing and style and context-aware speech translation for Indian languages.

Experienced in ASR, TTS, data collection, and low-resource NLP, with hands-on work at AI4Bharat, IIT Madras.

Also builds research-driven software tools and products at the intersection of language technology, education, and culture.

Education

2025 - Present | IIIT Hyderabad
PhD in **Computational Linguistics**

2024-25 | IIT Madras
CS6370: Natural Language Processing by **Prof. Sutanu Chakraborti**

2019-23 | SCSVMV, Kanchipuram
Bachelor of Technology (I.T.)

Interests

Academic:
Knowledge Modeling, Language Modeling, Sanskrit NLP, Computational Linguistics, Speech Processing, Cultural Preservation, Philosophy & Behavioral Psychology

Non Academic:
Chess, Carnatic Music, Singing/Songwriting, Music Production

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Skills

Areas/Domains
Speech Translation, Automatic Speech Recognition (ASR), Speech Synthesis (TTS), Low-resource NLP, Product Development in EdTech, and EventTech.

Programming Languages
Python, JavaScript, TypeScript, HTML, CSS/Sass, SQL, NoSQL, PHP, C/C++

Libraries & Frameworks
Three.js, React, Node.js, Express, Django, Laravel, Angular, Bootstrap

Design
Figma, Photoshop, Illustrator, Canva, UI/UX, System Design

Inter-Personal & Cognitive Skills
First-Principles Thinking, Proactiveness, Deep Thinking, Efficient Problem Solving, Branding, Holistic Systems Design

Experience

AI4Bhārat, IIT Madras
Researcher (Speech Synthesis) | Jul 2024 - Jun 2025
Evaluated & compared various open-source TTS models for Indian Languages like VoiceCraft, Parler TTS, F5 TTS, etc.

Telugu Language Expert (ASR + TTS) | Jul 2023 - Jun 2025
Developed transcription guidelines and annotation standards for **IndicVoices (ASR)** & **Rasa (TTS)** datasets.

Kautilya Education
Product Developer | Oct 2021 - May 2023
Digital Marketing, Managing Developers in building and managing applications for Kautilya Education & Partners

Selected Projects

Bolo – https://bolo.openbhasha.org
An audio recording interface for Speech Data Collection

Chandasahita Ramayanam – https://chandas.netlify.app
Sloka Viewer for all 19,700 ślokas of the Vālmīki Rāmāyaṇa by chandas (meter).

Laya – https://laya.smruthi.in
An audio-text alignment & annotation tool for Sanskrit Slokas

Smruthi – https://demo.smruthi.in
An interactive reading platform for Ramayana & Bhagavad Gita

LocalJS – https://npmjs.com/@localjs/localjs
A lightweight JS library for easy localization of web applications

eSubhalekha.com – https://esubhalekha.com **(Startup)**
An entrepreneurial experiment to learn business by building an end-to-end pre-event digital experience platform targeting Telugu weddings with wedding websites, and guest management tools.

GraphenePHP – https://graphenephp.com
A simple & Light-weight PHP MVC framework