

Srinivasa Sai Chava

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Education

Boston University

Master of Science in Artificial Intelligence

Boston, MA

Expected Dec 2026

Indian Institute of Information Technology Dharwad

Bachelor of Technology in Data Science and Artificial Intelligence

Dharwad, India

Nov 2021 – May 2025

Experience

Machine Learning and Flutter Trainer, Datavalley.ai

Vijayawada, India

Contract Trainer (Academic Workshops)

Jan 2025 – Jul 2025

- Conducted **hands-on ML and Flutter workshops** across partner colleges, creating **industry-aligned lab materials** and mentoring teams through **end-to-end project deployment**.
- Built and showcased a **production-grade Flutter app** featuring **role-based authentication**, secure **Zego-Cloud video**, and **UPI payment integration**, demonstrating complete release workflows.

AI-Driven Text Analytics, IIIT Dharwad

Dharwad, India

Indian Language Machine Translation Evaluation

Aug 2023 – Jul 2024

- Implemented **Google Translator vs. AI4Bharat's IndicTrans2** translation workflows and conducted **Semantic Textual Similarity (STS)** evaluation on IIT Bombay's multilingual dataset.
- IndicTrans2 outperformed Google Translator** in preserving **semantic accuracy and linguistic nuances**, validating the effectiveness of specialized **Indian-language MT frameworks**.

Projects

Sidewalk Accessibility Validator

[GitHub](#)

Prize Winner – BU Civics Hack 2026 (Cyvl Problem Statement)

Feb 2026

- Built a full-stack ADA compliance tool (**FastAPI + React/Vite**) combining a **rule-based map audit** on GeoJSON sidewalk assets with an **Image AI Advisor** (custom **PyTorch classifier + Llama-4 vision**) to predict sidewalk condition and generate actionable improvement guidance.

Boston Bus Equity

[GitHub](#)

Course Project – CASCS 506: Data Science Tools and Applications

Sep 2025 – Dec 2025

- Analyzing MBTA bus performance to **identify service equity gaps** by correlating historical ridership and reliability data with community demographics.
- Developing **time-series and tree-based ML models** to forecast delays and surface key drivers of service disparities.

RAG-Assisted Explainable Hate Speech Detection

[GitHub](#)

IIT Dharwad

Feb 2024 – Nov 2024

- Built an **explainable hate and fake news detection system** integrating **QLoRA fine-tuning with Retrieval-Augmented Generation (RAG)** for multilingual social media text, achieving **78.4% Macro-F1** on benchmark datasets.
- Combined **IndicXlit/IndicTrans2 transliteration, BERT/XLM-R/Electra embeddings**, and a **LangChain retrieval pipeline**, reducing hallucinations by **60%** and improving context relevance in hate-speech explanations.

FakeHate: Multi-Task Detection of Fake News and Hate Speech

[GitHub](#)

IIT Dharwad

Aug 2023 – Apr 2024

- Developed a **multi-task deep learning model** for simultaneous **fake news and hate speech detection** on multilingual social media data using **IndicXlit** and **IndicTrans2** for transliteration and translation.
- Integrated embeddings from **BERT, mBERT, ALBERT, Electra, and XLM-Roberta** with **cluster-based feature engineering**, improving **Hate F1** from **81.97 → 97.15** and **Fake F1** from **70.16 → 76.21**.

Publications

Impact of IDIOT Syndrome: ML-Based Risk Scoring for Health Anxiety

[Journal Link](#)

Tuijin Jishu / Journal of Propulsion Technology, Vol. 47, No. 01 (2026)

Jan 2026

- Surveyed 450 students on health-search anxiety; built a **Random Forest classifier (68% accuracy)** and **Linear Regression** risk scorer ($R^2=0.62$) via **TF-IDF features** (Cronbach's $\alpha=0.87$).

Hate Speech Detection in Telugu and Hindi Code-Mixed Text

[ACL Anthology](#)

- IIITDWD_SVC@DravidianLangTech-2024: Breaking Language Barriers; Hate Speech Detection in Telugu-English Code-Mixed Text (Sai et al., DravidianLangTech 2024)

Technical Skills

Programming & Frameworks: Python, C++, Java, PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, BERT, RAG, LangChain, QLoRA, FastAPI, Streamlit

Developer & MLOps Tools: Linux, Git, AWS, Azure, Apache, MySQL

Machine Learning & Data Science: OpenCV, Tesseract, Data Preprocessing, Feature Engineering, XGBoost

Leadership and Extracurriculars

Core Team – Google Developer Students Club, IIIT Dharwad: Led ML and app development initiatives; organized workshops and hackathons to strengthen community engagement.

Cricket Team Representative – IIIT Dharwad: Represented institute in inter-IIIT tournaments; promoted sportsmanship and team camaraderie.