

SHIVPRASAD SAGARE

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EDUCATION

International Institute of Information Technology, Hyderabad

June 2023

M.S. by Research in Computer Science & Engineering

CGPA: 8.4

- Thesis title: Cross-lingual approaches for text generation tasks in low-resource languages ↗
- Advisors: Prof. Vasudeva Varma ↗ and Dr. Manish Gupta ↗

Walchand College of Engineering, Sangli

June 2019

B.Tech. in Computer Science & Engineering

First Class

EXPERIENCE

Phronetic(*Machine Learning Scientist*)(Bengaluru)

Mar'24 - present

- Innovating the conversational systems for video-related usecases, researching the ways to utilize audio signal effectively.
- Trained an audio-visual multimodal LLM for video understanding, on video instruction-tuning dataset, using LoRA.
- Working on VideoRAG, by selecting the most relevant video frames, before passing them to the video chatbot.

NeuralSpace(*Applied Research Scientist*)(Bengaluru, remote)

Mar'23 - Feb'24

- Built audio datasets(10k+ hours) and trained diverse Speech-to-Text(STT) models like OpenAI Whisper, and Wav2Vec.
- Deployed above models with the backend in Python, Kubernetes. Developed the REST APIs and Python SDK.
- Worked on the STT sub-tasks like speaker diarization, vocabulary adaptation, dialect classification, and voice detection.
- Adopted the latest LLM innovations to improve the chatbot accuracy and to introduce features like Question-Answering.

Language Technologies & Research Center(*Research scholar*)(Hyderabad)

Jan'21 - Feb'23

- Contributed to the Indic NLP community by scraping and building several datasets in over 11 Indian languages.
- Proposed novel NLG model architectures for controlled text generation in low-resource languages.
- Experienced in finetuning the language models like BERT, GPT, T5, and optimizing them for better performance.
- Presented our research work at INLG 2023, held at Charles University, Prague, Czech Republic.

TomTom(*Software Development Intern*)(Pune)

Jan'19 - May'19

- Created interactive data visualization dashboards using AWS Quicksight for internal monitoring.
- Built an UI in Angular and springBoot to aid the transaction management process.

SELECTED PUBLICATIONS

Audio-visual training for improved grounding in the video-text LLMs

Under review

XF2T: Cross-lingual Fact-to-Text Generation for Low-Resource(LR) Languages ↗

INLG, 2023

Shivprasad Sagare, Tushar Abhishek, Bhavyajeet Singh, Anubhav Sharma, M. Gupta and V. Varma

XWikiGen: Cross-lingual Summarization for Text Generation in LR Languages

(A*) WWW, 2023

Dhaval Taunk, Shivprasad Sagare, Anupam Patil, Shivansh Subramanian, M. Gupta and V. Varma

Cross-lingual Alignment of Knowledge Graph Triples with sentences ↗

ICON, 2021

Shivprasad Sagare, Swayatta Daw*, Tushar Abhishek*, Vikram Pudi, Vasudeva Varma*

TECHNICAL STRENGTHS

Languages, Frameworks C, Python, Java(novice), SQL, HTML, Bootstrap, Flask, Streamlit

Libraries, Tools sklearn, PyTorch, PyTorch Lightning, HuggingFace, WandB, L^AT_EX, Git, Docker

Relevant coursework Statistical Methods in AI, Advanced NLP, Information Retrieval, Data Analysis