


Ramaneswaran S

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EDUCATION

Vellore Institute Of Technology University

Bachelor of Technology in Information Technology - GPA **9.04/10**

2018 – 2022

Vellore, Tamil Nadu

Don Bosco School

CBSE XII (2018) **95.8%** — CBSE X (2016) - **10 CGPA**

2005 – 2018

New Delhi, Delhi

PROFESSIONAL EXPERIENCE

NVIDIA

Bangalore, Karnataka

Data Scientist - Applied Deep Learning

Jun 2022 – Present

- Worked with a wide range of customers, helping them architect and deploy large scale ML solutions in the areas of language and speech processing.
- Worked with KT to build Korean foundational language models. [\[Blog Post\]](#)
- Led the development of SOTA code-mixed translation models and contributed to SOTA code-mixed ASR models for Indian languages.
- Currently working in the LLM Research team on improving LLM reasoning capabilities on math and structured data.

RESEARCH EXPERIENCE

Laboratory of Computational Social Science

New Delhi, Delhi

Research Intern

Jan 2021 – Present

- Working under the supervision of [Prof. Tanmoy Chakraborty](#) and [Prof. Md Shad Akhtar](#) in the areas of multimodality and conversational dialogs. Research published at **ACL, EMNLP**.

TCS Research & Innovation Lab

Pune, Maharashtra

Research Intern

Dec 2021 – May 2022

- Completed B.Tech thesis under the supervision of Dr. Vikram Jamwal in the area of controllable image generation. Research published at **WACV** and planned implementation at Munch Museum, Norway. [\[Press Release\]](#)

GAMMA Labs, University of Maryland

College Park, Maryland - Remote

Research Collaborator

Jan 2023 – Present

- Working under the supervision of [Prof. Dinesh Manocha](#) in the areas of low-resource learning and domain adaptation. Research published at **ACL, EMNLP, Interspeech**.

INTERNSHIP EXPERIENCE

Flipkart

Bengaluru, Karnataka

SDE Intern

Jun 2021 – July 2021

- Developed microservices in Spring Boot for a funnel view dashboard aimed at enhancing warehouse activity diagnostics.
- This dashboard led to a significant reduction in on-call diagnosis time, decreasing from 10 minutes to under 1 minute.

Samsung Research

Bangalore, Karnataka

Machine Learning Intern

Oct 2020 – Mar 2021

- Developed a generalizable deep learning pipeline with BERT and T5 models for dialogue state tracking.
- This approach achieved a notable intent accuracy of 93% and a slot accuracy of 82%.

Omdena

Palo Alto, California - Remote

Machine Learning Engineer

Aug 2020 – Oct 2020

- Collaborated with a global team of 50 engineers on a project for Save The Children.
- Developed a novel risk predictor for online conversations using LSTM models. [\[Blog Post\]](#)

SeaPort AI

Chennai, Tamil Nadu

Machine Learning Intern

May 2019 – June 2019

- Developed a customizable OCR pipeline using PyTorch.
- Developed FastAPI based MLOps backend to deploy OCR framework.

PUBLICATIONS

- [MEMEX: Detecting Explanatory Evidence for Memes via Knowledge-Enriched Contextualization](#)
Shivam Sharma, [Ramaneswaran S](#), Udit Arora, Md. Shad Akhtar, Tanmoy Chakraborty
ACL 2023
- [From Multilingual Complexity to Emotional Clarity: Leveraging Commonsense to Unveil Emotions in Code-Mixed Dialogues](#)
Shivani Kumar, [Ramaneswaran S](#), Md. Shad Akhtar, Tanmoy Chakraborty
EMNLP 2023
- [MMER: Multimodal Multi-task Learning for Speech Emotion Recognition](#)
Sreyan Ghosh, Utkarsh Tyagi, [Ramaneswaran S](#), Harshvardhan Srivastava, Dinesh Manocha
Interspeech 2023
- [Composite Diffusion: whole \$\geq \sum\$ parts](#)
Vikram Jamwal, [Ramaneswaran S](#)
WACV 2024
- [DALE: Generative Data Augmentation for Low-Resource Legal NLP](#)
Sreyan Ghosh, Chandra Kiran Evuru, Sonal Kumar, [Ramaneswaran S](#), Utkarsh Tyagi, Dinesh Manocha
EMNLP 2023
- [ACLM: A Selective-Denoising based Generative Data Augmentation Approach for Low-Resource Complex NER](#)
Sreyan Ghosh, Utkarsh Tyagi, Manan Suri, Sonal Kumar, [Ramaneswaran S](#), Dinesh Manocha
ACL 2023
- [Span Extraction Aided Improved Code-mixed Sentiment Classification](#)
[Ramaneswaran S](#), Sean Benhur, Sreyan Ghosh
WNUT @ COLING 2022
- [TamilATIS: dataset for task-oriented dialog in Tamil](#)
[Ramaneswaran S](#), Sanchit Vijay, Kathiravan Srinivasan
DravidanLangTech @ ACL 2022

TECHNICAL SKILLS

Languages: (Highly Proficient) Python, C++ (Moderate) JavaScript, Java, SQL

Libraries & Frameworks: Pytorch, FastAPI, Huggingface - transformers

Certifications and Training:

- Coursera - Deep Learning Specialization
- Coursera - Machine Learning
- Data Science Methodology
- Time Series Forecasting

PROJECTS

- [Argos](#) – Highly optimized (< 100ms latency) ML-powered Telegram bot to prevent notification pollution.
- [Quicktext](#) – An extremely quick (< 7 LOC) library to train text classification models; built on top of sPacy.
- [Picturate](#) – A foundry offering modular and extensible components for building GAN based text-to-image models.
- [Perception](#) – A comprehensive reference implementation for large-scale unsupervised image search.

ACHIEVEMENTS

- **Winner** of VIT Hack - Open Innovation Track
- **Winner** of VIT Hack - AWS Educate Track
- **Winner** of Sharechat IndoML Datathon - Multilingual Absusive Comment Identification
- **Ranked 19/1000** in Cascade Cup Data Analytics Competition

COMMUNITY SERVICE

- **Reviewer for:** EMNLP 2023, DravidianLangTech @ ACL 2023
- **Technical Member** of Google Developers Group, VIT. Worked on several open-source projects and presented lectures on machine learning. [[Lecture](#)]