

# Ramaneswaran S

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## EDUCATION

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### Vellore Institute Of Technology University

Bachelor of Technology in Information Technology - GPA **9.08/10**

**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

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### NVIDIA

**Bangalore, Karnataka**

Data Scientist - Applied Deep Learning

Jul 2022 – Present

- Worked with a wide range of customers from various segments, helping them architect and deploy large scale ML solutions in the areas of NLP and Speech processing.
- Led the development of SOTA code-mixed translation models and contributed to code-mixed ASR models for Indian languages.
- Currently working in the LLM Research team on improving a LLM's reasoning capabilities on math and structured data.

## RESEARCH EXPERIENCE

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### Laboratory of Computational Social Science, IIIT Delhi

**New Delhi, Delhi**

Research Intern

Jan 2021 – Present

- Working under the supervision of Prof. Tanmoy Chakraborty and Prof. Shad Akthar in the areas of multimodality and conversational dialogs. Research published at **ACL, EMNLP**

### TCS Research & Innovation Lab

**Pune, Maharashtra**

Research Intern

Jan 2022 – Jun 2022

- Working under the supervision of Dr. Vikram Jamwal in the area of controllable image generation. Research published at **WACV**

### 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

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### Flipkart

**Bengaluru, Karnataka**

SDE Intern

May 2021 – July 2021

- Developed microservices in Spring Boot for a funnel view dashboard aimed at enhancing warehouse activity diagnostics.
- This innovation 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

Dec 2020 – Feb 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

### 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

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- [MEMEX: Detecting Explanatory Evidence for Memes via Knowledge-Enriched Contextualization](#)  
Shivam Sharma, Rameswaran 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, Rameswaran S, Md. Shad Akhtar, Tanmoy Chakraborty  
**EMNLP 2023**
- [MMER: Multimodal Multi-task Learning for Speech Emotion Recognition](#)  
Sreyan Ghosh, Utkarsh Tyagi, Rameswaran S, Harshvardhan Srivastava, Dinesh Manocha  
**InterSpeech 2023**
- [Composite Diffusion: whole  \$\geq \sum\$  parts](#)  
Vikram Jamwal, Rameswaran S  
**WACV 2024**
- [DALE: Generative Data Augmentation for Low-Resource Legal NLP](#)  
Sreyan Ghosh, Chandra Kiran Evuru, Sonal Kumar, Rameswaran 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, Rameswaran S, Dinesh Manocha  
**ACL 2023**
- [Span Extraction Aided Improved Code-mixed Sentiment Classification](#)  
Rameswaran S, Sean Benhur, Sreyan Ghosh  
**WNUT @ COLING 2022**
- [TamilATIS: dataset for task-oriented dialog in Tamil](#)  
Rameswaran S, Sanchit Vijay, Kathiravan Srinivasan  
**DravidanLangTech @ ACL 2022**

## TECHNICAL SKILLS

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**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

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- [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

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

## COMMUNITY SERVICE

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- **Reviewer for:** EMNLP'23, DravidianLangTech @ ACL'23
- Technical Member of Google Developers Group, VIT. Worked on several open-source projects and presented lectures on machine learning [1]