

Sridhar Suresh Ragupathi

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EDUCATION

SIMON FRASER UNIVERSITY

MASTER OF SCIENCE IN
PROFESSIONAL CS [↗](#)
Sep 2022 - present

NIT, TRICHY

BTECH IN CS [↗](#)
Jul 2016 - Jun 2020
CGPA: 8.63/10

COURSEWORK

Machine Learning
Image Processing & its Applications
Natural Language Processing
Data Warehousing & Mining
Introduction to Probability Theory
Introduction to Algorithms

SKILLS

Languages:

Python • C • C++ • Bash

Tools:

AWS QuickSight • Visual Studio • Git •

Google Colab • Atom • Blender • \LaTeX

Frameworks:

Tensorflow • PyTorch • RASA

PUBLICATIONS

Exploring Pair-Wise NMT for Indian
Languages [↗](#)

• Presented at ICON 2020 - Patna, India [↗](#)

Guarding a polygon without losing
touch [↗](#)

• Presented at SIROCCO 2020 -
Paderborn, Germany [↗](#)

AWARDS

2019 Charpak Lab Scholarship [↗](#)

• 1 of 21 students selected from India to
pursue a funded research internship at a
French Laboratory

ACTIVITIES

Volunteer

NSS, National Service Scheme [↗](#)

• Educated and interacted with children at
an orphanage

Deputy Manager

Festember Content Team, NIT Trichy [↗](#)

• Master of Ceremony for music &
valediction events • Head of 30 member
team for event reports • Newsletter
designer

EXPERIENCE

DATA INTERN, ELTROPY

Data Analytics • Data Engineering
AWS Forecast • AWS QuickSight • Python
Nov 2021 - Jul 2022, Chennai [↗](#)

• Forecasted text messages for Credit Unions in the US categorized by depart-
ments and message types by implementing an ML pipeline using AWS cloud services
(Amazon Forecast, Amazon MWAA)

• Showcased KPIs for Credit Unions by designing performance optimized dash-
boards on AWS QuickSight and embedded the dashboards on the Eltropy
application to be sold as premium insights to customers

NLP ENGINEER, LIMECHAT

Deep Learning • Natural Language Processing
Python • RASA

Jan - Dec 2021, Chennai [↗](#)

• Boosted sales by 6% for a leading D2C men's grooming brand by designing and
implementing a system to launch personalized chat re-marketing campaigns.

• Improved chatbot's ability to handle typos and synonyms for the product discov-
ery quiz by creating a POS Tagging based system to obtain synonyms and typos
from real user conversations with the chatbot

CAPSTONE PROJECT, NIT TRICHY

Computer Vision

Python • Shell script

Sep 2019 - Jun 2020, NIT Trichy [↗](#)

• Increasing object detection accuracy using fusion ensembling methods on bound-
ing box coordinates obtained from object detectors: YOLOv3, YOLOv4 and SSD [↗](#)

RESEARCH ASSISTANT, CVIT, IIIT HYDERABAD

Deep Learning • Natural Language Processing
Python • PyTorch • Bash Script

Jul - Dec 2020, Chennai [↗](#)

• Achieved state-of-the-art BLEU scores 19.07, 19.18 and 9.48 for English to Tamil,
Urdu and Odia translation respectively and WAT20 En-Odia leaderboards rank 3 [↗](#)
by fine-tuning a multilingual neural machine translation model

RESEARCH INTERN, LIRIS, ECOLE CENTRALE DE LYON

Deep Learning • Computer Vision

Python • Blender • PyTorch • Atom • Git

May - Jul 2019, France [↗](#)

• CHIST-ERA Learn-Real Project [↗](#) - Deep learning for agricultural robotics

• Increased mIoU score to 46.65 for semantic segmentation of fruits by creating
a synthetic training dataset of fruit tree images using Blender and enhancing its
photo-realism using generative adversarial networks (CycleGAN)

PROJECT INTERN, IIT BOMBAY

Deep Learning • Computer Vision

Python • Google Colab • Tensorflow

Dec 2018 - Apr 2019, Mumbai [↗](#)

• Created and utilized a labelled image dataset of people smoking cigarettes to
finetune an Inception-ResNet-v2 model to classify images containing smokers,
achieving an accuracy of 74.66% and F1 score of 0.7055