SRIDHAR SURESH RAGUPATHI

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EDUCATION

National Institute of Technology, Tiruchirappalli, India July 2016 - July 2020
B. Tech. | Computer Science and Engineering | CGPA: 8.63 / 10
Core Courses: Data Structures, Algorithms, OS, DBMS, Networking Protocols, Computer Architecture, Compilers
Electives: Probability, Machine Learning, Artificial Intelligence, Image Processing, NLP, Data Mining

SKILLS

Languages: Python, C/C++
Tools and Frameworks: Git, Latex, Google Colab, Bash, Blender, PyTorch, Tensorflow, RASA

EXPERIENCE

NLP Engineer - LimeChat Jan 2021 - May 2021
•Boosted sales by 6% for The Man Company - a leading D2C men's grooming brand by designing and implementing a system to launch personalized chat re-marketing campaigns.
•Improved the chatbot's ability to handle typos and synonyms for the product discovery quiz by creating a Parts of Speech (POS) Tagging based system to obtain synonyms and typos from real user conversations with the chatbot.

PROJECTS

Improving Neural Machine Translation for Indian languages Jul 2020 - Dec 2020
Guides: Prof. Dr. C V Jawahar, Prof. Dr. Vinay Namboodiri | CVIT, IIIT, Hyderabad
•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.

PyTorch implementation of CharCNN for text classification July 2020
IIIT, Hyderabad
•Discovered architectural redundancies by performing an ablation study after successfully replicating the results of the research paper: "Character Level Convolutional Networks for Text Classification" by implementing it in PyTorch.

Improving object detection accuracy using fusion ensemble methods September 2019 - June 2020
Guide: Prof. Dr. M. Sridevi | NIT, Trichy
•Outperformed object detectors YOLOv3, YOLOv4 and SSD with an accuracy of 40% on the PascalVOC dataset by implementing fusion ensemble methods applied to the bounding box coordinates from the aforementioned detectors.

Learn-Real Project May 2019 - July 2019
Guide: Prof. Dr. Liming Chen | LIRIS, Ecole Centrale de Lyon, France
•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).

Automatic Insertion of Smoking Advisories in Videos Dec 2018 - April 2019
Guide: Prof. Dr. Ganesh Ramakrishnan | IIT, Bombay
•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.

PUBLICATIONS

•Exploring Pair-Wise NMT for Indian Languages - Published at ICON 2020 - India
•Guarding a Polygon Without Losing Touch - Published at SIROCCO 2020 - Paderborn, Germany

LEADERSHIP AND EXTRA-CURRICULARS

•Headed a reports team of 30, emceed and designed flyers for **Festember**, NIT Trichy's cultural festival. (2018)
•Educated and interacted with children at an orphanage as a volunteer for the **National Service Scheme**. (2016)

ACHIEVEMENTS

•1 of 21 students to receive the **Charpak Scholarship** to pursue a research internship in France. (2019)
•Recipient of the **Scholarship Programme for Diaspora Children**. (2017)