

SHIVASANKARAN VANAJA PANDI

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EDUCATION

Master of Computer Science, Stony Brook University
GPA: NA

Expected 2025

Bachelor of Technology in Computer Science, IIT Gandhinagar
GPA: 3.5

2019 - 2023

Relevant Coursework: Deep Learning, Natural Language Processing, Data science

EXPERIENCE

Data Scientist Intern

Jun 2023 - Aug 2023

Uniphore

Chennai, India

- Proposed a novel feature based graph construction and label propagation for intent discovery, which achieved new SOTA scores for few-shot intent classification and intent discovery.
- Achieved 2.32% - 1.26% improvement in metrics w.r.t previous SOTA under various experiment settings.
- Under review at EMNLP 2023 (CORE A*).

Researcher

Dec 2021 - Jul 2023

Computational Linguistics and Complex Social Networks Lab

IIT Gandhinagar, India

- Achieved 36% improvement in metric compared to the previous SOTA method for data extraction from scientific line charts, by proposing a novel loss function.
- Artificially generated the largest chart dataset with variations in 8 different chart elements
- Published as the first-author at the 2023 IEEE/CVF WACV international conference (CORE A)

Researcher

Dec 2022 - Jul 2023

Computational Linguistics and Complex Social Networks Lab & Uniphore

IIT Gandhinagar, India

- Established a new benchmark for Sanskrit word segmentation, by proposing novel data augmentation strategies to handle low-resource segmentation examples
- Showcased shortcomings of SOTA methods under few-shot and zero-shot settings.
- Paper being written as the first-author for TACL (Impact factor 17.59)

PROJECTS

Particle Picking for cryo-EM images Working on novel particle picking solutions to facilitate better 3D-reconstruction of cells from cryo-EM images

Terrain classification through Raspberry Pi Developed, deployed and optimized a neural network for custom terrain classification of IIT Gandhinagar campus.

Multi-modal 3D style transfer Designed a deep learnign based pipeline to generate a styled 3D object from textual inputs. Won the Honorable mention at IIT Gandhinagar research showcase 2023

LEADERSHIP

- Lead a team of 12 students at the 11th Inter-IIT tech meet representing IIT-Gandhinagar
- Lead various activities as part of the volunteer group in IndoML and ICVGIP conferences

SKILLS

Technical Skills Python, PyTorch, Tensorflow, Keras, HuggingFace