SHIVASANKARAN VANAJA PANDI

+1(631) 949-0169 ◇ Stony Brook, NY

svanajapandi@cs.stonybrook.edu ◇ linkedin ◇ https://shiva-sankaran.github.io/ Availability: May 15 - Aug 15 2024

EDUCATION

Master of Computer Science, Stony Brook University   Expected 2025
GPA: 4.0
Ongoing Thesis: Computer Vision-guided Cryo-EM Pipeline. Advisor: Prof. Habin Ling

Bachelor of Technology in Computer Science, IIT Gandhinagar   2019 - 2023

EXPERIENCE

Data Scientist Intern   Jun 2023 - Aug 2023
Uniphore   *Chennai, India*

- Proposed a novel feature based graph construction and label propagation for intent discovery.
- Achieved 2.32% - 1.26% improvement in metrics w.r.t previous SOTA under various experiment settings.
- Accepted 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)

Software Engineering Research Intern   May 2022 - Jul 2022
Strand Life Sciences   *Bangalore, India*

- Adopted and implemented the SOTA AI method for quantification and identification of lymphocytes from images, which was used to monitor the recovery of cancer patients.

PROJECTS

Open Source Contributor Contributing to DeepChem an open source deep learning toolkit.

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.

PUBLICATIONS

- **Shivasankaran V P**, Muhammad Yusuf Hassan, Mayank Singh. LineEX: Data Extraction from Scientific Line Charts. WACV 2023.
- Bhavuk Singhal, Ashim Gupta, **Shivasankaran V P**, Amrith Krishna. IntenDD: A Unified Contrastive Learning Approach for Intent Detection and Discovery. EMNLP 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, CUDA