

Srija Mukhopadhyay

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SKILLS

PROGRAMMING

Languages

Python • C++ • C • Java

Racket • Javascript • MySQL • BASH

Frameworks and Libraries

PyTorch • TensorFlow • HuggingFace

OpenCV • Scikit-Learn • NLTK

Node.JS • ReactJS • Django • Flask

SOFT SKILLS

Leadership • Time Management

Organisation • Public Speaking

PUBLICATIONS

UNRAVELING THE TRUTH: Do VLMS REALLY UNDERSTAND CHARTS? A DEEP DIVE INTO CONSISTENCY AND ROBUSTNESS | EMNLP 2024

EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY HYDERABAD

Hyderabad, India

BTECH IN COMPUTER SCIENCE

MS IN COMPUTATIONAL LINGUISTICS

2021 - 2026 (Expected)

CGPA : 8.87 / 10

Dean's List Awardee

VIVEKANANDA MISSION SCHOOL

Kolkata, India

PCM + COMPUTER SCIENCE

2006 - 2021

10th : 98 %

12th : 98.75 %

COURSES

Deep Learning

Statistical Methods in AI

Introduction to Natural Language Processing*

Advanced Natural Language Processing

Principles of Programming Languages

Compilers

Neural Natural Language Generation

Information Retrieval and Extraction

Data Structures and Algorithms

Analysis and Design of Algorithms*

Operating Systems and Networks

Design and Analysis of Software Systems

Linear Algebra and Probability

Last Updated: 11th January 2025

EXPERIENCE

UNIVERSITY OF PENNSYLVANIA AND ARIZONA STATE

UNIVERSITY | UNDERGRADUATE RESEARCHER

Jan 2024 - Present

Currently conducting research on multi-modal models, with a focus on evaluating their performance and robustness in visual question answering for charts and maps.

This work is in collaboration with Prof. Dan Roth, Prof. Vivek Gupta, and Adobe Research. Co-authored a paper as the first author, accepted at EMNLP 2024.

Other papers currently under review.

GOOGLE | SWE INTERN

May 2024 - August 2024

Worked as a part of the Android PDF team, implementing an end to end pipeline for obtaining and selecting images in PDFs.

GOOGLE | STEP INTERN

May 2023 - July 2023

Worked in the GCS Metering team to implement integrity checks on the usage records generated by the team in order to ensure that the data is valid before being sent for billing.

PROJECTS

PRODUCT ATTRIBUTE DETECTION | SEPT, 2024

Implemented a novel technique for recognizing product attributes from images by fine-tuning Florence-2-base using negative sampling. Team placed 14th in the Amazon ML challenge out of 70000+ participants.

TECH STACK PyTorch, HuggingFace

EXPLORING ANSWER SENTENCE SELECTION | Nov, 2023

Implemented methods for selecting the best answer sentence among possible candidates using Neural Networks and Transformers.

TECH STACK Python, PyTorch

NANOPASS COMPILER | MAY, 2024

Designed a nanopass compiler from scratch in racket, for racket. The compiler could handle variables, loops, tuples and functions.

TECH STACK Racket

NETWORK FILE SYSTEM | Nov, 2023

Built a Network File System prototype allowing basic storage facilities along with concurrent client connections and multiple storage servers.

TECH STACK C

AWARDS

2024	Winner	Google Generation Scholarship
2024	Winner	JPMorgan Chase Quant Research Mentorship
2022	Winner	D. E. Shaw Deisis Ascend Educare Fellowship
2021	National	Panini Linguistics Olympiad (PLO)
2021	National	Indian National Informatics Olympiad (INOI)
2020	National	Indian National Informatics Olympiad (INOI)

* Served as a Teaching Assistant for these courses.