




Supriya Manna

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INTRODUCTION

As a third-year student in Computer Science and Engineering, I am deeply passionate about understanding how society works and constantly revolves around the pool of different schools of thoughts. I have some experience in constraints programming, operations research, and optimization problems, designing and analyzing (meta)heuristics and algorithms. Currently, I am working on the explainability of black-box models in the presence of Human-in-the-loop, analyzing xAI paradigms in terms of model interoperability and trustworthiness. I aspire to work in theoretical & computational social science, complex model explainability, and Human-AI trust, and I am excited to contribute meaningfully to the development of AI models that are not only accurate but also transparent, trustworthy, and socially responsible.

EDUCATION

SRM University, AP

Bachelor of Science in Computer Science and Engineering (Hons)

Sept 21- Sept 25

Current GPA: 9.02/10.00

COURSEWORK

Grades: [comprehensive grade card here](#)

Relevant courses with grades: Intro to Programming with C (9/10), Object-Oriented Programming with C++ (9/10), Data Structures (8/10), Design and Analysis of Algorithm (10/10), Discrete Mathematics (10/10), Formal Language and Automata Theory (10/10), Operating System (10/10), Java (10/10), Python (9/10), Single and Multi-variable Calculus (9/10), Probability and Statistics (8/10), Artificial Intelligence, DBMS, Computer Networks, Linear Algebra(all in progress)

Awards: Academic scholarship holder (3 times in a row)

SKILLS

Languages: C/C++, Java, Python, MATLAB, Bash, L^AT_EX

Tools, Libraries and Frameworks: Git/GitHub, NumPy, pandas, scikit-learn, Matplotlib, TensorFlow, LIME, SHAP, Gurobi Optimizer, Google Colab, Linux

EXPERIENCE

Research Intern | *SRM University, AP under Dr. Niladri Sett*

June 2023 – Aug 2023, Sept 2023 – Present

- Literature Reviews from various papers on explainable ML, ML in public policy, Fairness in complex models
- Working on defining notation of trustworthiness in black-box models in the presence of Human-in-the-loop

Next Tech Lab | *SRM University*

Nov 2021 - Jan 2023

- Explored statistical learning, machine learning, mathematical programming, and advanced algorithm designing paradigm
- Explored problems in constraint programming, operational research, and game theory

Summer School, Yale University | *Yale Young Global Scholar - 2021*

July 2021

- Worked on business analytics with Python data analytics libraries.
- Recorded a podcast on how COVID-19 affected small and mid-size businesses backed with robust data and possible solutions.

PUBLICATION DETAILS

Under Review:

1. *Revitalising the Single Batch Environment: A 'Quest' to Achieve Fairness and Efficiency*

Authors: Supriya Manna, Dr. Krishna Siva Prasad Mudigonda

Preprint Available on arXiv

Forthcoming Chapter:

2. *Need of AI in Modern Education: in the Eyes of Explainable AI (xAI)*

Publication: "Blockchain and AI in Shaping the Modern Education System"

Publisher: CRC Press, Taylor & Francis Group, USA

Authors: Supriya Manna, Niladri Sett

Preprint Available on ResearchGate

PROJECT

1. Simulator for Classical Scheduling Algorithms : HTML, Flask, Python | *University Undertaken Project - 4th sem (May '23)*

2. Random TSP Solver using Ant Colony Optimization : Python, Metaheuristic, Colab: [base implementation](#)

HOBBIES

–Exploring Eastern Philosophies: Samkhya, Jainism, Buddhism etc.

–Used to participate in competitive programming occasionally, best achievement-**Global Rank 11** (Div 3) (Handle: vputin)