# **KOUSHANI CHAKRABARTY**

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#### **EDUCATION**

University at Buffalo - SUNY

August 2022 - December 2023

Master's, Computer Science

GPA: 3.4

Relevant Courses: Machine Learning, Reinforcement Learning, Natural Language Processing, LLMs

University at Buffalo - SUNY

January 2019 - May 2020

Master's, Electrical Engineering

West Bengal University of Technology

August 2011 - June 2015

Bachelor's, Electronics and Communications Engineering

GPA: 7.65

## PROJECTS & OUTSIDE EXPERIENCE

Swarm RL in Quadcopters

Buffalo, NY

Research Intern

June 2023 - Present

· Developing an end to end RL model for payload flight in quadcopters

**Rinforcement Learning LLM** 

**Buffalo, NY** 

Research Intern

August 2023 - Present

• Currently developing a Large Language Model using Open AI's Transformers to aid in Reinforcement Learning Research

**Behavioral Cloning in Reinforcement Learning** 

Buffalo, NY

Research Intern

January 2023 - May 2023

· Developed an experiment to compare vanilla Behavioral Cloning and Behavioraly Cloned Reinforced Learning

### IoT enabled Workplace Optimization using Reinforcement Learning

Buffalo, NY

Research Intern

January 2023 - May 2023

· Developed a Reinforcement Learning based solution to optimise communication in an IoT enabled workplace

**Game Rating Application** 

January 2023 - May 2023

• Developed a Game RatingApplication by ap[lying NLP on an Amazon Reviews Dataset

#### PROFESSIONAL EXPERIENCE

SAIR Lab
Research Intern

Buffalo, NY, USA

June 2023 - Present

- Spearheaded research on Reinforcement Learning techniques in Unmanned Flight and Robotics, resulting in the development of advanced algorithms for autonomous flight control.
- Collaborated with cross-functional teams to integrate machine learning models into flight systems, demonstrating exceptional teamwork skills.
- Utilized Python, PyTorch, and TensorFlow to implement and optimize machine learning algorithms, showcasing proficiency in relevant programming languages and frameworks.

**CERN** 

Kolkata, West Bengal, India

Research Intern

June 2021 - June 2022

• Developed code to parallelise Data Collection in the Allen Experiment at the Large Hadron Collider in Geneva, Switzerland

## University at Buffalo - SUNY

Buffalo, NY, USA

Research Intern

June 2020 - January 2021

Conducted research on Bayesian Network Structure Learning Algorithms

#### **Tata Consultancy Services**

Kolkata, West Bengal, India

Associate Systems Engineer

July 2015 - July 2017

• Developer of Applications for Telecommunications Clients

## **SKILLS & INTERESTS**

Skills: Git, HTML/CSS, Java, Python, Pytorch, Tensorflow, AWS, Agile, Docker, Kubernetes, Hadoop, Apache Spark

**Languages:** Hindi, Bengali **Interests:** Singing, Cooking