Shreyan Mayukh Mitra

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EDUCATION

- **University of Washington | Seattle, WA**   **Expected Graduation: 2025**
  - BS Computer Science (Senior Standing) with Minor in Entrepreneurship, GPA: 3.84 and Dean's List
  - **Related Coursework:** *Fundamentals of Computer Programming II, Data Structures and Parallelism*
- **Mission College | Santa Clara, CA**   **Graduated: 2023**
  - AA Natural Science and Math, AS Computer information Systems, GPA: 4.0
  - **Related Coursework:** *Data Structures, Introduction to C Programming, Differential Equations, Linux Essentials, Introduction to C++, Introduction to Python.*
- **Coursera | Online**   **Graduated: 2023**
  - Machine Learning Specialization
  - **Related Coursework:** *Supervised Machine Learning: Regression and Classification, Advanced Learning Algorithms, Unsupervised Learning: Recommenders and Reinforcement Learning*

TECHNICAL SKILLS

LLM, Explainability, Xcode/Swift, Java, C/C++, Python, Matlab, Go, HTML/CSS/JS, Linux/Win, Github/Collab, LaTeX

EXPERIENCES

- **Researcher, Professor Leilani Gilpin Lab | Univ of California, Santa Cruz, CA**   **JUNE 2022 - Present**
  - Led a research project to compare explanatory artificial intelligence systems (XAI) in machine learning
  - Developed the XAISuite library that allows users of all ages and coding experience to utilize explainable machine learning (84k downloads): https://11301858.github.io/xaisuiteweb
  - Created a pre-generation hallucination-detection system in Large Language Models (LLMs) [paper pending]
  - Created an algorithm to calculate distance between feature importance vectors with ranked components:
    - [2304.08499] The XAISuite framework and the implications of explanatory system dissonance,
    - [2311.1081] A novel post-hoc explanation comparison metric and applications *(published at ICPRAI 2024)*
  - Technologies: LLM, Explainability, Python, Blockly, Node.js, Golang, Git version control, Sphinx, Tensorflow, Keras, SHAP, LIME, Transformers
- ***ML Researcher, Dr. Ranjay Krishna's Lab | University of Washington, Seattle (Starting)***
- **Researcher, COSMOS Program | Univ of CA, Irvine**   **JULY 2021**
  - Modeled metastasis of malignant cancer cells using MATLAB
  - Analyzed effects of treatment targeted towards cancer stem cells (CSCs) versus more generalized treatment
- **Developer Advocate for Microsoft Azure, BitHeroes Program | Univ of CA, Davis**   **JUNE 2020**
  - Created a distributed, serverless application for call center data processing
  - Technologies: Text Analysis, Blob Storage

PERSONAL PROJECTS

- **GoThere**   `   **AUGUST 2023 - Present**
  - Created an iOS app using Swift and Xcode that utilizes image classification and location tracking to identify where a user is and point out prominent geographic features in pictures the user takes.
  - Integrated with rideshare and rental services to allow the user to build an itinerary
- **Choitee** (https://greenmanwalking.freehostia.com/choitee/)   **JUNE 2021**
  - Created web app and Android app using Javascript and PHP that provides mental health guidance, helps patients communicate with trusted people, and connects them with medical professionals

LEADERSHIP/COMMUNITY

■President, Computing for Environmental and Social Advocacy■ TEDx Speaker, University of North Carolina ■ Member, Santa Clara Unified School District Task Force for Environmental Awareness and Sustainability Initiatives ■ Santa Clara Unified Council of PTAs Advocacy Chair■ Volunteer Tutor for Refugee Children at Light and Salt Academy■ Syndicated Environmental Columnist on Medium

HONORS AND AWARDS

National Merit Scholar, Presidential Scholar Semifinalist, 2x President's Volunteer Service Gold Medalist

REFERENCES: Available upon request