

Aishani Mukherjee

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Education

University of Maryland, College Park, MD

Aug 2021 – May 2025 (Expected)

Bachelor of Science in Computer Science

- College Park Scholars Program: Science and Global Change Alumni
- “General Business” Minor and “Spanish Language, Culture, and Professional Contexts” Minor

Projects

Exploring the Factors that Influence Sleep Health: A Data Driven Approach

Jul 2023 - Aug 2023

- Researched with peers on a sleep study through relational databases, delving into intricate connections between the impact of various lifestyle and stress factors on sleep.
- Analyzed two datasets, comprising 630 individuals by 8 features for the first and 374 individuals and 13 features for the second, to investigate the intricate connections between occupation and stress factors on sleep duration.
- Utilized Python and scikit-learn to compute linear regression and model feature importance, revealing that sleep duration had highest mean feature importance on stress levels (0.076 magnitude), providing critical insights into various stress management systems.
- Coordinated the structuring of research sections collaboratively with team through Git, using HTML and Jupyter Notebook for seamless readability.

Work Experience

CMSC320: Data Science Teaching Assistant, University of Maryland, College Park, MD

Jan 2024 – Present

- Administered responsibility and organization of over 200+ students within the course alongside colleagues
- Developed projects and course material relevant to machine learning classification and clustering techniques
- Aided students to enhance their skills in utilizing Pandas and SQL through the use of Jupyter Notebooks

Student Tutor at College Park Academy, College Park, MD

Feb 2023 - May 2023

- College Park Scholars: Science and Global Change Recognition for Scholars Practicum
- Facilitated several workshops, motivating 21 middle school students to explore the applications and impacts of Robotics.
- Collaborated with educators and peers to innovate projects for robotics using Python.

Summer Intern at FOCUS Center for Autism, Canton, CT

Jul 2019 - Sep 2019

- Utilized digital platforms to support the development of social and collaborative abilities in students with ASD enabling them to exhibit their technological prowess.
- Reinforced ideas with fellow educators to advise on improving the curriculum for the Summer Program.

Leadership and Extracurricular Activities

BigTh!nk AI Club, University of Maryland, College Park, MD

Since 2022

- Active member in participating, developing foundational skills in Python programming, and gaining an understanding and appreciation of the latest advances in artificial intelligence technology.

Professional Kempo Karate Martial Artist and Instructor, MD and CT

Since 2020

- Instructing students about Kempo Karate techniques and movements, and leading physical exercises for approximately 10 - 15 students to enhance their techniques and skills in this specific form.

Relevant Coursework & Skills

Data Analysis and Statistics:

MATH401: Applications in Linear Algebra

STAT400: Applied Probability & Statistics I

CMSC320: Data Science

CMSC335: Web Application Development with JS

Deep Learning and Modeling

CMSC421: Artificial Intelligence

CMSC422: Machine Learning

CMSC426: Computer Vision

CMSC472: Deep Learning

Languages: Python, SQL, Ruby, Java, JavaScript, C (Programming), HTML, CSS, MATLAB, Dart

Developer Tools and Frameworks: Git, WSL, VS Code, Eclipse, Flutter, Pandas, PyCharm, PyTorch, MongoDB, Node.js