




# Debjoty Mitra

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## PROFILE

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In my second year of college, I became interested in **Machine Learning**. Since then, along with other development practices, I've been teaching myself **AI** and **ML**. Additionally, I practice regularly on **LeetCode**. I am interested in **Computer Vision**, **LLMs** and **Predictive Analysis**, and I've successfully completed several projects in these areas. Furthermore, I have a solid understanding of cloud concepts and hands-on experience with **Microsoft Azure**. I am also **2x** cloud certified, holding the **DP-100: Microsoft Azure Data Scientist Associate** certification. To complement this, I utilize version control systems like **Git** and **GitHub** to manage my projects efficiently. I also have a **YouTube Channel** and **Personal Blog** where I try to share everything I learn.

## EDUCATION

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**BRAC University, Dhaka** Jan 2022 – Dec 2025  
*Bachelor of Science – BS, Computer Science*

**St. Joseph Higher Secondary School, Dhaka** Jul 2018 – Oct 2020  
*Higher Secondary – Science*

GPA – 5.00/5.00

## EXPERIENCE

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**Markopolo.ai** Feb 2024 – Present  
*Data Science Intern*

- As a Data Science Intern at **Markopolo.ai**, I focus on tasks like gathering data from the internet (using **Python** scripts and manual methods), identifying important words, labeling data, analyzing brands, and understanding customer sentiment.
- I've worked on these tasks for two major **MFS** and **Beverage** brands in Bangladesh.

## PROJECTS

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### Aruco Marker Distance Measurement

- Developed a system to accurately measure distances using Aruco markers. Implemented **Computer Vision** techniques to detect markers in images or video streams, enabling almost precise distance calculations.
- The project is aimed at measuring distances using a marker known as "**7x7\_100.png**" and a custom **checkerboard pattern** for calibration. The main functionality involves capturing images or video frames, detecting the marker, estimating its pose, and calculating the distance from the camera to the marker.
- Project link:** <https://github.com/debjotyms/aruco-marker-distance-measurement>

### Face Tracking

- Created a face tracking system utilizing **OpenCV** library. Developed algorithms to detect and track human faces in real-time from video input.
- Project link:** <https://github.com/debjotyms/face-tracking-opencv>

### Intrusion Detection System

- Created an intrusion detection system using a dataset from **Kaggle**. Implemented algorithms to analyze network traffic and identify potential security breaches.
- Project link:** <https://github.com/debjotyms/Intrusion-Detection-Streamlit-CSE484>

## TECHNICAL SKILLS

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**Programming Language:** C++, Python

**ML/AI:** NumPy, Pandas, Seaborn, Scikit-learn, TensorFlow\*, PyTorch\*

**Web Technologies:** HTML, CSS, Bootstrap, Django\*

**DMBS:** MySQL, SQL3lite

## CERTIFICATIONS

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### Microsoft Certified: Azure Data Scientist Associate

- **Earned On:** June 2024
- **Credential ID:** 8C564412AD29B5F2
- **Credential URL:** [https://learn.microsoft.com/api/credentials/share/en-us/debjotyms/8C564412AD29B5F2?sharingId=studentamb\\_249093](https://learn.microsoft.com/api/credentials/share/en-us/debjotyms/8C564412AD29B5F2?sharingId=studentamb_249093)

### Microsoft Certified: Azure AI Fundamentals

- **Earned On:** Apr 2024
- **Credential ID:** 1FA23F4AAEF5D096
- **Credential URL:** [https://learn.microsoft.com/api/credentials/share/en-us/debjotyms/1FA23F4AAEF5D096?sharingId=studentamb\\_249093](https://learn.microsoft.com/api/credentials/share/en-us/debjotyms/1FA23F4AAEF5D096?sharingId=studentamb_249093)

### GitHub Foundations

- **Earned On:** June 2024
- **Credential URL:** <https://www.credly.com/go/7QpDtNIH>

## VOLUNTEERING

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### Microsoft Learn Student Ambassador

*Community Leader*

Jan 2023 – Present

- Learn Student Ambassadors are a global group of campus leaders who are eager to help fellow students, create robust tech communities and develop technical and career skills for the future.
- **Profile Link:** <https://mvp.microsoft.com/en-US/studentambassadors/profile/244eb950-2577-4b5e-b71e-fadeb6c2265b>

### DevChangeMakers

April 2023 – May 2024

*Community Manager*

- DevChangeMakers is a student-focused community dedicated to skill-building and empowerment. As the Community Manager, I facilitate collaboration, organize events, and cultivate a supportive environment for students to learn and grow together.
- **Community Link:** <https://www.facebook.com/groups/718399220046600>

### TensorFlow User Group Bangladesh

May 2023 – May 2024

*Co-organizer*

- TensorFlow User Group Bangladesh is a global community backed by **Google** to exploring and advancing the use of **TensorFlow** in various **applications**. Together with the team, we aim to bring collaboration, share knowledge, and inspire innovation within the **TensorFlow community** in Bangladesh.
- **Community Link:** <https://www.facebook.com/groups/178663161076600>

### Josephite Math Club

Aug 2018 – Oct 2019

*Graphic Designer*

- I had designed the **official poster** for **Josephite Math Mania 2018** (Annual Math Fest).
- I also designed a **1x1** version of the same poster, which was published as an ad in the renowned newspaper '**Prothom Alo**'.
- **Group Link:** <https://www.facebook.com/2015JMC>

## ACHIEVEMENTS

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- **The Duke of Edinburgh's International Award, 2023 (Bronze Standard)**
- **Film Fly Experience Australia, 2019 – Winner** from BD Region (Hosted by Australian Government)
- **Bangladesh Olympiad in Informatics (BDIO), 2019 – Top 20** (National Level)
- **Digital Presentation, Josephite Math Mania, 2018 – 1st Runner Up** (Presentation Topic: Calculus)
- **National High School Programming Contest, 2017 – 2nd Runner Up** (Regional Level)

## RELEVANT COURSEWORK

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**Computer Science:** Object Oriented Programming, Data Structures and Algorithms, DBMS

**Mathematics:** Linear Algebra, Probability Theory, Elementary Number Theory, Statistics, Calculus