Asif Tauhid

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EDUCATION

New York University Abu Dhabi	Aug. 2022 – Present
Major: Computer Science, Minor: Applied Mathematics	*Abu Dhabi, UAE*
New York University, New York	Aug. 2024 – Dec. 2024
Graduate-level Data Science and CS courses	*New York, NY*
New York University, Paris	Jan. 2024 – May. 2024
French Elementary and CS courses	*Paris, France*

EXPERIENCE

Research Assistant (*PyTorch, NumPy, Pandas, Matplotlib*) — Jan. 2024 – Present

***Swarm Robotics & Machine Learning**, Supervised by Prof. Eliseo Ferrante, NYU* — *Abu Dhabi, UAE*

- Researching swarm intelligence algorithms for optimizing multi-agent coordination using reinforcement learning.
- Developing ML models to enhance real-time decision-making in robotic swarms.
- Analyzing experimental data to improve swarm behavior efficiency and robustness.

Market Research Intern (*NumPy, Pandas, Matplotlib*) — Jun 2024 – Aug. 2024

Labtech Diagnostic Ltd. — *Rangpur, Bangladesh*

- Analyzed 3,000 patient records and interviewed 30 doctors for strategic insights.
- Assisted in planning and executing bi-weekly team meetings and marketing campaigns.
- Designed targeted strategies using data-driven market research, launching two successful campaigns.

PROJECTS

Student Researcher, *DS and AI Lab* (*PyTorch, NumPy, Pandas, Matplotlib*) — Feb. 2024 – Present

***Hybrid GNNs for Anomaly Detection**, Supervised by Prof. Talal Rahwan, NYU* — *Abu Dhabi, UAE*

- Developing hybrid Graph Neural Networks (GNNs) in PyTorch for anomaly detection in complex datasets.
- Analyzing patterns with NumPy & Pandas, optimizing detection accuracy through statistical techniques.
- Designing efficient data preprocessing pipelines to improve model performance.

Lytport (*Django, Next.js, NumPy, Pandas, Matplotlib*) — Sept. 2024 – Present

Instagram Data Analysis Tool

- Scraped 7,000 Instagram posts from top educational pages (e.g., NYU, Harvard).
- Built an SQL database and a web interface for personal and scraped data analysis.
- Implemented report generation, post insights, and hashtag trend analysis.

LEADERSHIP ACTIVITIES

Founder and Executive Director — Oct. 2020 – Present

Five Fingers Organization — *Rangpur, Bangladesh*

- Leading 14+ executives to organize events and raise funds, impacting 200+ community members.
- Conducting quarterly data-driven studies for recipient needs and implementing sustainable programs.

Public Affairs Head (3x) — Jan. 2023 – May 2024

BSA New York University — *Abu Dhabi, UAE*

- Coordinated communication among 8+ student groups at NYUAD.
- Designed and distributed branded materials to engage 500+ students.

SKILLS

- **Programming Languages**: Python (PyTorch, NumPy, Pandas, Scikit-learn, Matplotlib), C++, HTML, CSS, JavaScript
- **Tools**: IBM SPSS, Microsoft Office, Adobe Illustrator, Photoshop, After Effects, Premiere Pro, Canva, Google Workspace
- **Languages**: Bengali, English, Hindi, Urdu, French (Beginner), Arabic (Beginner)