Ashmit Mukherjee

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Education

New York University Abu Dhabi, UAE *Expected May 2027*
Bachelor of Science in Computer Science GPA: 3.5
Relevant Coursework: Natural Language Processing, Principles of Data Science, Statistics, Software Engineering, Data Structures & Algorithms, Discrete Mathematics, Computer Systems Architecture.

Technical Skills

Machine Learning & NLP: Python, PyTorch, Transformers, Hugging Face, Scikit-Learn, XGBoost, SHAP, Pandas, NumPy, MLflow
Web Development: React, Node.js, Express, MongoDB, JavaScript, Streamlit, RESTful APIs
Other Technologies: C++, C#, Unity, Git, Docker, GitHub Actions, Looker Studio, LaTeX

Experience

Machine Learning Engineer Intern, Zeek *Jun 2025 – Aug 2025*
Developed autonomous AI systems for marketing campaign optimization and customer segmentation.

- Engineered synthetic data pipeline and XGBoost segmentation models achieving 85% precision in targeting, improving ROI by 23%.
- Implemented SHAP explainability framework for model transparency and personalized campaign recommendations.

Marketing Manager, HackNYU *Apr 2024 – Jan 2025*

- Led cross-functional team of 5 to execute data-informed marketing strategy, resulting in 40% attendance increase year-over-year.

First Year Program Facilitator, NYUAD *Fall 2024*

- Mentored 50+ students through intercultural activities and collaborative problem-solving exercises.

Projects

CAMP – Campus Asset Management Platform — React, Node.js, MongoDB, Express *Fall 2024*
Full-stack MERN application for centralized campus equipment borrowing and inventory tracking.

- Built RESTful API with JWT authentication serving 100+ users across 3 campus facilities with real-time notifications.
- Deployed with CI/CD pipeline using GitHub Actions and Docker, reducing equipment conflicts by 60%.

Hinglish NER Benchmark — PyTorch, Transformers, Hugging Face *Fall 2024*
Research comparing fine-tuned multilingual models vs. zero-shot LLMs on Hindi-English code-mixed NER.

- Fine-tuned mBERT and XLM-RoBERTa on COMI-LINGUA dataset, achieving 78% F1 score on entity-level NER.
- Benchmarked against GPT-4o and LLaMA 3.1, demonstrating zero-shot LLaMA matched fine-tuned performance while eliminating training costs.

eCampusExplorer: VR Campus Tour — Unity, C#, VR (Meta Quest) *Spring 2024*
Immersive VR application for exploring NYUAD campus with 120+ panoramic scenes.

- Developed custom teleportation system in Unity with 360° GoPro Fusion photography integration for seamless campus navigation.
- Implemented accessibility features including audio descriptions and intuitive controller-based UI for Meta Quest headsets.