
AI/ML Architect with **4+ years of experience** designing and deploying production-grade AI/ML systems, with formal education in Statistics and Operations Research. Currently pursuing an MS in AI with focus on Deep Learning, NLP, LLM, GenAI & Responsible AI

EDUCATION

FORDHAM UNIVERSITY, GABELLI SCHOOL OF BUSINESS

New York, NY

MS, Artificial Intelligence in Business, GPA: 4

2025-2026

- **Teaching Assistant:** Managed labs, Blackboard grading, and exam proctoring for 5+ courses across three consecutive semesters
- **Society & Clubs:** The AI Society (Board Member), Marketing Society, Responsible Business Leadership

PROFESSIONAL EXPERIENCE

MCKINSEY & COMPANY

Gurugram, India

Analytics Analyst

November 2021-June 2023

- **RGM Analytics:** Provided predictive analytics for 10+ CPG categories across multiple geographies, driving 4–7% margin growth
- Built **advanced regression** and ML pipelines on **Azure Databricks** with MLOps, CI/CD, monitoring & production readiness

THE SMART CUBE

Noida, India

Senior Analyst

July 2019-October 2021

- Led end-to-end **Market Mix Modeling** to quantify the pricing, marketing and trade contributions to sales for a top F&B client

AI/ML PROJECTS

DEEP LEARNING FOR AUDIO AUGMENTATION

Fall 2025

- Architected a modular, scalable **5M-parameter PyTorch neural audio system** for multi-instrument synthesis, combining a Transformer arranger, GRU-based instrument modeling, and a CNN-driven drum generation
- Implemented an **Audio RAG pipeline** to retrieve structurally aligned audio from a 30K+ chunk corpus
- Validated output quality via human-in-the-loop evaluation and synchronized **Time-Series analysis** of melodic and dynamic features

NFL INSIGHT ASSISTANT

Summer 2025

- Designed a **local server-based agentic AI assistant** (Cursor, Gemini API) for NFL play-by-play analytics with end-to-end pipeline architecture, CoT reasoning, and structured RAG context to deliver tactical insights
- Added calendar integration and persistent chat logging; and **SBERT-based consistency** validation (≥ 0.80 similarity)

AGENTIC AI WITH COPILOT

Summer 2025

- Built an **HR chatbot for the United Nations** using Copilot Studio incorporating bias checks and responsible AI constraints
- Orchestrated workflows for ticketing, document generation, and policy queries with 95%+ response reliability

TV SERIES NLP ANALYTICS

Spring 2025

- **Analyzed 195K+ dialogue lines** from iconic TV series using NLP framework to extract character-level and series-level insights
- Derived cross-character sentiment, dialogue patterns, and inter-show similarity using **TF-IDF and cosine metrics**

NEW YORK CRIME WITH MACHINE LEARNING

Spring 2025

- Generated neighborhood safety labels (2010–2024) using **PCA and K-Means** on NYC arrest data for supervised modeling
- Mapped safety labels to shooting data and trained **Random Forest/ANN classifiers**, achieving 95%+ accuracy

MARCH DATA CRUNCH MADNESS

Spring 2025

- Built ML pipeline for March Madness 2025 with feature engineering, PCA, and **Reddit sentiment analysis**
- Ensemble-trained XGBoost, Random Forest, and MLP across 500+ LLM-generated feature sets to correctly predict the champion

TECHNICAL SKILLS

-
- **Certification:** AWS Data Engineering, AWS Cloud Security, Databricks for GenAI, NVIDIA Augment LLM, UiPath Developer
 - **Proficiency:** Python, Scikit-learn, TensorFlow, PyTorch, NLTK, Tableau, SQL, R, Git