

MAYMANI (PRIM) ADHIPHANDHUAMPHAI

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EDUCATION

New York University

Sep 2022 - May 2027

B.A. Data Science, B.A. Psychology | Minor: Philosophy | GPA: 3.52

PROJECTS

Met Museum Self-Tour Curator | [Github](#) | [Presentation/Demo](#)

May 2026

- Led 5 person team to deploy a full-stack semantic search application for the Met's on-view collection (~44K artworks), featuring an interactive Next.js frontend with concept-based search and floor-by-floor gallery routing
- Designed a multimodal embedding pipeline combining image and text representations (CLIP + Sentence-BERT) with a from-scratch Gaussian Mixture Model to efficiently retrieve relevant artworks without scanning the full collection
- Optimized cluster selection using Bayesian Information Criterion (BIC) to tune the GMM's hyperparameters, balancing model complexity against fit quality across embedding space

RateMyProfessor (Teacher Review Platform Analysis) | [Github](#)

Dec 2024

- Analyzed ~90K user reviews from education review platform to identify drivers of student satisfaction and learning engagement.
- Conducted Pearson and Spearman correlation analysis and PCA to examine relationships among ratings, difficulty, engagement signals, and course attributes. Visualized key-trends with Matplotlib.
- Built logistic regression model (AUC = 0.76) to predict 'pepper' button engagement behavior and its association with higher ratings. Used LASSO regression to identify gender bias and instructional modality effects on ratings.

PROFESSIONAL EXPERIENCE

Youth Actigraphy Data Project

New York Metropolitan Area

Research Assistant @ NYU SAIL LAB

Mar 2026 - Present

- Building Vector Autoregression (VAR) modeling pipeline to explore network relationships between children's activity patterns and impulsive/inattentive behaviors in classroom environments.
- Cleaned and normalized Demographic survey and EMA data by redesigning raw tables into efficient schemas, reducing redundancy and improving team analysis workflows.

Bird Color Literature-Review (New York University)

New York Metropolitan Area

Research Assistant

Jan 2024 - July 2025

- Cleaned and validated 1,000+ academic literature records into a team-wide database using Python (Pandas), while automating Web of Science metadata retrieval to replace manual entry and boost data collection output by ~400%.
- Conducted exploratory data analysis and correlation analysis on relationships between human visual perception of bird morphology and scientific naming conventions; presented findings at NYU Liberal Studies Research Colloquium (Apr 2024).

FutureTales LAB by MQDC

Bangkok, Thailand

Consultancy Intern

Jul 2024 - Aug 2024

- Produced 5+ analytical reports synthesizing AI and data science concepts for a professional education course ("AI for Business Professionals").
- Facilitated data-driven ideation workshops for the Tourism Authority of Thailand, assisting non-technical clients in understanding emerging new technology trends into strategic tourism recommendations.

Collaborative Study of Clinical Psychology Literature (University of Michigan)

Remote

Research Intern

May 2023 - Nov 2023

- Structured and digitized 50+ clinical psychology topic summaries into a knowledge-graph format on the ICademy platform to support AI chatbot-assisted learning.
- Evaluated, provided feedback on AI chatbot Chrome-extension prototypes, improving usability and content accuracy.

SKILLS

Programming: Python, Java

Frameworks/Libraries: Pandas, Pytorch, Matplotlib, Seaborn, Sci-kit Learn, Sci-py, Stata

Databases & Storage: PostgreSQL, MySQL, MongoDB, Microsoft Excel

Spoken Languages: English (Native), Thai (Fluent), Chinese (HSK 4), Italian (Elementary)