

Pranab Islam

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Education

Sep 2020 – Dec 2022

New York University

Master of Science in Data Science

GPA: 3.73 / 4.00

Coursework: Deep Learning, Natural Language Processing with Representation Learning, Machine Learning, Big Data, Probability & Statistics, Optimization & Computational Linear Algebra

New York, NY

Sep 2015 – Jun 2019

The University of Chicago

Bachelor of Arts in Economics

GPA: 3.81 / 4.00

Chicago, IL

Professional Experience

Jun 2021 – Present

Algorand, a leading blockchain and decentralized application protocol company

Boston, MA

Data Analyst Intern, Product Team

- Created the first weekly clustering system that grouped 1000+ decentralized apps on Algorand using set similarity on segments of the apps' code, creating a systematic way for Algorand to collaborate with decentralized app developers (due to company names now being attached to groups of previously undocumented apps)
- Constructed 10+ metrics from existing data and designed the first iteration of event tracking metrics with seven separate event types for both Algorand's current developer site and soon-to-be-launched redesigned developer site in order to make data-driven design decisions based on the discovered user behaviors
 - Tools: Google Analytics API, Google Tag Manager, Python, Pandas, SQL

Feb 2021 – May 2021

Global Association of Risk Professionals (GARP)

Jersey City, NJ

Data Analyst Intern

- Developed a pipeline, written in Python, to scrape a large volume of financial pdf files, extract the tabular data and page information, and output the results where the data visualizations team could readily access the data

Jul 2019 – Jul 2020

Mizuho Americas, the investment banking arm of a top 20 global bank

New York, NY

Investment Banking Analyst, Financial Sponsors Coverage Group

- Conducted data-driven financial analysis on companies worth \$100 million - \$6 billion on a daily basis which included building 7-year financial models, sensitivity & credit risk analysis, regression analysis on various economic indicators, and a multitude of qualitative analyses in order to execute or evaluate 20+ leveraged buyout and debt funding transactions on behalf Mizuho's clients
- Automated Mizuho's weekly leveraged finance market report to translate raw web data into a seven-page, client-ready presentation using VBA and Excel, saving two man-hours of labor per week

Technical Projects

Nov 2020 – Dec 2020

NBA Underdog Matchup and Betting Analysis

Using Python, analyzed how one could create profitable betting positions by focusing on significant underdog matchups; link to the project's report detailing the process and results here: <https://tinyurl.com/ynb9xv52>

- Created two classification models (random forest and gradient boosted trees) that made positive expected value bet decisions that outperformed the baseline models (logistic regression, support vector machine, and random guessing) with each model optimized differently to simulate different types of betting behavior; final classifier was an ensemble of the two tree-based classifiers and generated a 9% return on investment
- Extracted, transformed, and loaded the data into shared repositories; scraped 200,000+ lines of data with BeautifulSoup; reconfigured a basketball-reference.com API to pull statistics; cleaned, merged, and transformed data to create a finalized set of features to analyze

April 2021 – May 2021

Music Recommender System

Utilized ALS implicit collaborative filtering in PySpark to create a recommender system on the Million Song Dataset; final model had a mean average precision of 0.08 (30x improvement from the baseline popularity model)

Skills

Python (NumPy, Pandas, scikit-learn, PySpark, PyTorch, Matplotlib), SQL, MapReduce, Hadoop, Tableau, Google Cloud Platform, Google Analytics API, Linux, Bash, Excel, Visual Basic, Git, Financial Modeling