

Dhruv Gupta

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EDUCATION

University of Pennsylvania

Bachelors of Engineering in Artificial Intelligence

GPA: 3.97

Courses: Data Structures and Algorithms, Big Data Analytics, Linear Algebra for ML & AI, Optimization

August 2023 – May 2027

Philadelphia, PA

WORK EXPERIENCE

Jane Street

Incoming Strategy and Product Intern

May 2026 – August 2026

New York, NY

Polymarket

Growth Engineer

November 2025 – Present

Philadelphia, PA

- Engineered high-reliability market-fetching infrastructure and templated email-generation tooling, powering Polymarket's daily market insights newsletter to 10,000+ users and leading to \$80K+ in daily trade activity.

Morgan Stanley

Fixed Income Quant Intern

May 2025 – August 2025

New York, NY

- Developed XGBoost models for predicting month-by-month mortgage prepayment and default on a loan level
- Wrote script using model to calculate cashflows for loan pools. In production for billion+ in annual lending.

University of Pennsylvania

Teaching Assistant for Linear Algebra for ML & AI

January 2025 – May 2025

Philadelphia, PA

- Conducted office hours and recitations for 120 students and wrote class homeworks and notes

Ryval

Founding Applied Mathematician

January 2025 – May 2025

Miami, FL

- Formulated dynamically shifting odds-pricing algorithm for spot betting on Twitch streams to ensure 10% profit
- Implemented and deployed web socket based server to handle live bet limit and odd updates

Prelude

Technology and Program Management Intern

May 2024 – August 2024

New York, NY

- Increased GTM outreach by 1800% with 15% of budget by automating an AI agent to scrape 40,000 contacts
- Built AI entrepreneurship assistant using React, Mongo, and GPT-4o-mini to automate business canvas creation

LEADERSHIP EXPERIENCE

Hack4Impact

Co-director

September 2023 – Present

Philadelphia, PA

- Managed 40 student developers to build software for 6 nonprofit organizations over an year
- Led 12 engineers on full-stack project for Fulfill NJ aggregating 20 data sources into a dashboard used by C-suite for decision making. Developed backend architecture for projects with Neighborshare, ArtSphere, Guitars over Guns

Global Research and Consulting Group

September 2023 – Present

Philadelphia, PA

Vice President of Finance

December 2023 – December 2024

Philadelphia, PA

Daily Pennsylvanian

Innovation Lab Manager

Comma Capital

University Fellow

August 2024 – November 2024

New York, NY

PROJECTS

HyperSparse Matrix Clustering in Social Networks | NumPy, Pandas, Matplotlib

January 2025

- * Explored methods for clustering influencers to maximize follower overlap for micro-influencer marketing startup
- * Built simulated datasets, developed a constrained k-means solution to improve overlap points by 20%

Enflow | React, Mongo, OpenAI, HuggingFace, Vercel

April 2025

- * Built and deployed full MVP of a SaaS platform for law enforcement agencies to create and automate workflows
- * Used OpenAI API for document processing, deployed on HuggingFace and Vercel, currently pitching to agencies

TECHNICAL SKILLS

Skills: Java, Python, Ruby on Rails, JavaScript, NumPy, Pandas, PyTorch, SciKitLearn

Interests: Arsenal Football Club, Boston Celtics, Jewelry Design, Hiking, Stair Mastering, Cooking

Awards: 4x AIME, Top 20% Chicago Trading Competition