

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

Polymarket

Growth Engineer

- 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

- 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

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

Ryval

Founding Applied Mathematician

- 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

- 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

- 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

Vice President of Finance

Daily Pennsylvanian

Innovation Lab Manager

Comma Capital

University Fellow

PROJECTS

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

- 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

- 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