

# Vani Kanoria

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## EDUCATION & HONORS

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**University of Pennsylvania, MSE in Data Science, Philadelphia, PA** **Aug '23-May '25**  
**GPA: 3.9/4**

- Relevant Coursework: Machine Learning, Trustworthy Machine Learning, Statistics for Data Science, Advanced Probability Models, Collaborative Innovation Management, Engineering Entrepreneurship
- **Teaching Assistant** for Machine Learning: Teaching recitations and holding office hours
- **Research Assistant** at Wharton Business School: prompting LLMs
- **Engineering Entrepreneurship Fellow**: one of 12 students selected for a highly competitive work-study program in technology venture leadership, focusing on both innovation in engineering and business strategy

**Colgate University, Bachelor of Arts, Hamilton, NY** **Aug '18-May '22**  
**GPA: 3.95/4**

- Double major: **Applied Mathematics and Economics**
  - Graduated Summa Cum Laude with induction into the Phi Beta Kappa Society
  - Alumni Memorial Scholar: Among <4% of students selected for demonstrating academic achievement
  - Allen Prize for Excellence in Mathematics, Sisson Mathematics Prize, Sophomore Residential Scholar
- Relevant Coursework: Deep Learning, Data Analysis, Environmental Data Science, Real Analysis, Numerical Analysis

## SKILLS

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**Tools:** Python (Scikit-learn, Pytorch), SQL (Snowflake), R, MATLAB, Tableau, Git, Jupyter notebooks, LLMs, Miro, ProductBoard, Figma

**Expertise:** Machine Learning, Natural Language Processing, Mathematical Modeling, Product Analytics, Data Analysis and Visualization

## EXPERIENCE

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**Associate Data Analyst, Unqork (SaaS unicorn), New York** **Aug '22-July '23**

- Queried software platform usage data using SQL and built interactive time-series dashboards in Tableau to provide insights on user productivity, engaging stakeholders from the product, design and engineering teams, and facilitating data-driven product decisions
- Impacted pivot in product and marketing strategies of 3 major platform features by presenting deep dive analyses of use cases
- Parsed and deconstructed user-generated logic sequences to productize them as reusable templates, resulting in improved efficiency
- Created data strategy templates in collaboration with product team to standardize success tracking for software releases

**Analytics Intern, Unqork (SaaS unicorn), New York** **June '21-Aug '21**

- Developed a Proof of Concept for integrating Unqork's no-code platform with Azure's Automated Machine Learning Service (AutoML) by building a robust pipeline using the Python Standard Development Kit (SDK)
- Integrated the Azure AutoML service seamlessly into the company's software through REST API calls, empowering users to effortlessly create and deploy end-to-end machine learning models without the need for manual code development
- Collaborated with team to implement A/B testing framework in platform, enabling Unqork users to optimize user experience

**Data Science Intern, Datavations, Miami, FL** **Dec '20-Jan '21**

- Consolidated inventory data using SQL and built Tableau dashboards to provide real-time market intelligence to enterprise clients

**Research Assistant, Colgate University, Hamilton, NY** **May '20-July '20**

- Implemented stochastic simulations in MATLAB to study gene expression control in biological networks, achieving a 300% acceleration in research progress through algorithm development

## PROJECTS

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**Explaining Image Generating Models, Penn Engineering** **March '24-present**

- Applying explainability methods LIME and SHAP on image generation models to measure relative impact of each word of input

**Workflow Use Case Clustering, Unqork** **Jan '23-Feb '23**

- Quantified characteristics of applications created using Unqork's no-code software and applied clustering algorithms to categorize use cases and identify which categories maximize value for clients, leading to a pivot in product strategy

**Content-Based Book Recommenders with 4 Information Retrieval Methods, Colgate University** **Jan '22-May '22**

- Developed and evaluated four content-based book recommendation systems in Python, utilizing TF-IDF, word vectors, paragraph vectors, and the BERT transformers architecture, providing a comprehensive comparative analysis of text extraction techniques

**Generating Fashion using Generative Adversarial Networks (GANs), Aquicum Institute of Technology** **Sept '21-Nov '21**

- Created generator network using tensorflow to create fashion images and used discriminator to improve image quality