

KEVIN J. COSGROVE

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<https://kevin-cosgrove.github.io/>

WORK EXPERIENCE

Data Scientist | US AI | North Bethesda, MD | April 2024 - Present

- Team lead for US AI's Forsight platform, a low-code AI/ML and data pipeline solution; oversee product strategy, engineering execution, and cross-functional alignment
- Independently developed, deployed, and maintained a production-grade generative AI system for analyzing client cybersecurity compliance posture, processing sensitive and classified data and generating \$750K+ in annual revenue
- Redesigned US AI's model serving architecture using clean code principles and scalable design patterns (Factory, Adapter), enabling modular self-hosting of 100+ ML algorithms and nearly 100 LLMs
- Led R&D initiative to train a large language model from scratch via distributed training on a 20-node Kubernetes cluster; productionized the pipeline as a reusable training feature within the Forsight platform
- Act as technical SME and solutions architect in client and investor meetings, driving AI adoption and contributing to multimillion-dollar sales and funding outcomes

Data Science Consultant | Haver Analytics | New York, NY | September 2023 - March 2024

- Built a proof-of-concept model to classify B2B sales opportunities as wins/losses using deterministic and probabilistic methods in Python and Excel
- Designed two interactive GUIs to help the sales team perform individual sales predictions and assess overall pipeline health
- Led full data lifecycle from collection and cleansing to analysis and model delivery, ensuring actionable insights for sales strategy

Economic Database Consultant | Haver Analytics | New York, NY | January 2022 - March 2024

- Trained teammates and led high-priority, complex projects involving financial time series data
- Developed and implemented solutions for team-specific database issues, improving data integrity
- Conducted research of macroeconomic indicators to update regional databases with critical time series
- Performed QA using a mix of tools: Python, Excel Macros, EViews, and MS-DOS batch files

Economic Database Manager | Haver Analytics | New York, NY | July 2018 - January 2022

- Self-taught Python to automate internal workflows, reducing task runtimes by 25–99%
- Managed and mentored research assistants to maintain high standards of data accuracy and efficiency
- Expanded Australia Regional database by 64,000+ time series, directly contributing to revenue growth through upsells and prospecting

EDUCATION

Master of Science, Data Science | Rochester Institute of Technology | December 2023

Bachelor of Science, Economics | Pennsylvania State University | May 2017

Bachelor of Science, Biology | Pennsylvania State University | May 2017

SKILLS / TECHNICAL PROFICIENCIES

Languages: Python, Bash

Frameworks/Libraries: Pandas, NumPy, Scikit-learn, PyTorch, Transformers, FastAPI, vLLM, Accelerate, DeepSpeed, Matplotlib, Seaborn, NetworkX, DeepEval

Tools/Infrastructure: Kubernetes, Docker, Podman, GitLab

Platforms / Suites: Hugging Face Hub, Microsoft Office, Google Workspace

Databases: MongoDB, PostgreSQL

Concepts / Practices: LLMs, NLP, Distributed Training, Parameter Efficient Fine-Tuning (PEFT), Prompt Engineering, Retrieval Augmented Generation (RAG), NoSQL, SQL, Vulnerability Management