

Danylo Sovgut

📞 630-877-4332 • ✉️ sovgut@uchicago.edu • [in linkedin.com/in/danylo-sovgut](https://www.linkedin.com/in/danylo-sovgut)
github.com/dsovgut

Education

University of Chicago

Applied Data Science — MS, 4.0 GPA

09/2024 – 12/2025

University of Illinois at Urbana-Champaign

Astronomy, Physics — BS, Honorary List, 3.5 GPA

09/2017 – 05/2020

Work and Project Experiences

Bertelsmann (Penguin Random House & BMG Music & Bertelsmann Investments)

Future Leaders Program

08/2025 – present

- Built an ML pricing pipeline for BMG's sync licensing division, engineering 249 features and deploying a two-stage classifier + regression model that reduced prediction error by 78%, projected to unlock \$7M+ in annual revenue.
- Developed 5 custom MCP tools adopted by a 400-person licensing team, enabling natural-language search across 3M+ songs by artist, genre, popularity, and usage history.
- Designed an AI-powered investment memo builder for BHI's VC team, automating a 12-section workflow pulling from Attio, Notion, Box, and web — cutting prep time from 2 days to 2 hours.
- Architected an integrated AI operations stack for a VC firm using Claude and MCPs, building 8 tools including pre-call briefs, dealflow routing, portfolio updates, and automated pipeline hygiene.

University of Chicago

Graduate Projects

09/2024 – 12/2024

- Designed and deployed an agentic AI assistant at Global-IQ, replacing a legacy form calculator with an ML-powered frontend integrated via MCP to automate personalized global-mobility recommendations.
- Built a RAG-powered chatbot for the UChicago Data Science site by scraping program content, creating transformer embeddings stored in a vector DB, and integrating GPT-4 via a Chainlit UI.
- Created a multimodal e-commerce chatbot that identifies products from images and answers user questions via CLIP embeddings and an LLM, all in a Chainlit UI.

Pluto Academy

Director & Founder

04/2020 – present

- Tutored 1,000+ students in math, physics, and astronomy, maintaining a 99% 5-star satisfaction rate.
- Created a non-for-profit online physics school featuring 70+ high-quality lessons totaling 8+ hours of content.

University of Illinois at Urbana-Champaign

Computational Astrophysics Engineer

12/2018 – 05/2020

- Modeled, visualized, and produced an academic paper on cosmic explosion frequencies, estimating a 70% likelihood of past nearby events in Earth's lifetime and assessing potential extinction risks for humanity.
- Improved the accuracy of the near-Earth rate of cosmic explosion models by 50% using predictive analysis in Python.
- Selected from over 800 undergraduate students to present at the Illinois State Capitol (Capitol Scholars Research Award).

Main Astronomical Observatory, NAS, Ukraine

Data Analyst — Observatory Operator

06/2019 – 08/2019

- Automated data ingestion and cleaning pipeline, reducing observation preparation time by 30%, leading to a co-presented poster at an international science conference in Stuttgart, Germany.
- Analyzed 300+ satellite observations for an international scientific consortium, contributing to the study of satellite orbit.

Skills/Languages

Tools: Python (Scikit-Learn, PyTorch, TensorFlow, XGBoost, LightGBM), SQL, OpenAI API, Git, NoSQL, Google Cloud, MCP

Languages: English, Spanish, Russian, Ukrainian - Fluent; Portuguese - Intermediate