Vincenzo Scotto Di Uccio

Full Stack Data Science Leader

Results-driven data science leader with a diverse background in gaming, software development, and Artificial Intelligence. Excels in directing and delivering impactful projects by fostering purposeful collaboration amongst cross-functional teams. My goal is always the same: Create useful solutions, line by line.

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WORK EXPERIENCE

Associate Director - Data Science
Publicis Groupe

04/2025 - Present
Advertising and Marketing

Achievements/Tasks
- Leading efforts to turn manual tasks into fully automated, scheduled python pipelines, with current finished efforts already saving the team 16% of time.
- Built forecasting models of current adverts, allowing for a better strategy for go-to-market ads.

Head of Data Science - Forecasting
KraftHeinz Company

08/2023 - 04/2025
Manufacturing

Achievements/Tasks
- Led the team generating long horizon forecasts. Leveraging advanced tree based machine learning models, improved the quarterly forecast accuracy by 3.5% resulting an estimated 30MUSD in value due to better cash flow and capital management.
- Led the implementation of GitHub Copilot to our DS Chapter. Due to the implementation, estimated time savings is 27% and code quality increased.
- Worked on the first internal GenAI tool, using RAG. Built to help factory workers have a user interface where they can look up answers to manufacturing questions quickly based on veteran workers.
- Alongside my manager, planned how resources would be divided across all of our projects. Helped direct the team of four data scientists between multiple projects.

Head of Data Science
Venetian Las Vegas

02/2022 - 08/2023
Hospitality and Gaming

Achievements/Tasks
- Led a team of four data scientists, from juniors to seniors. Helped upskill the juniors by teaching them python and machine learning basics to advanced principles.
- Built the internal machine learning modeling suite using python and leveraging scikit learn. This internal tool allowed us to try every model from linear regression to cat-boost, quickly and returned the best performing models and results so that it could be presented and iterated on.
- Improved our R-based probability model by including socioeconomic data about our patrons, which after rigorous A/B testing found that this improvement will nearly 2x our ROI YoY.
- Using machine learning tree based models, built our value predictor model so we can more accurately predict the value of patrons on their next trip. The model accuracy was 87% and our marketing team improved their personalization targeting by over 100% against baseline.
- Leveraging machine learning time series forecasting models, we were forecasting the arrivals and departures to help the housekeeping team better optimize their staffing and reduce costs. The models improved baseline by over 33%.
- Leveraging our own data and internal python tool, built a recommender engine for casino patrons, based on clustering algorithms and lookalike principles.
- Using the existing cameras around the casino floor, I built a POC computer vision model to help security identify blackjack cheaters with 97% accuracy.

SKILLS

Python   SQL   AI   Machine Learning

LLMs   GenAI   EDA   Git   AWS

Azure   Agile   Recommender Engines

Personalization   Clustering

PASSION PROJECTS

StackTrack - Poker Player Social Media
- Using React and Supabase I built a social media website tailored for Poker players. The website allows for players to add tournaments and see their performances. You can also share this with friends on the website. stacktrack.vercel.app

CenzGPT - AI version of me
- Using React, OpenAI and Pinecone I created a personal website with an LLM model trained on me so that people can ask this AI about myself. Check it out at vsdu.dev

EDUCATION

Master's Statistics and Data Science
Massachusetts Institute of Technology

08/2020 - 05/2024

Professional Science Master's in Bioinnovation
Temple University

08/2017 - 12/2018

Bachelor in Biology and Comp Sci
Albright College

08/2013 - 05/2017

INTERESTS

Chess   Soccer   League of Legends

Reading   Poker