
Dennis Myasnyankin

Data Scientist

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[LinkedIn](#) | [Github](#) | [Portfolio](#)

SKILLS

Python, R, SQL, JavaScript, Node.js, Web Scraping, Scrapy, Puppeteer, Playwright, Machine Learning, Tableau, Matplotlib, Seaborn, pandas, Git, Docket, scikit-learn, AWS

EXPERIENCE

FleetPros LLC - *Lead Developer / Analyst*

JANUARY 2024 - PRESENT

- Automated daily vehicle sourcing workflows, reducing manual labor by **40** hours per week and significantly improving operational efficiency.
- Built scalable web scrapers to extract vehicle data across **8** car brands; developed internal data dictionaries to match unstructured feature info with trade-in value increases based on CarMax pricing, processing **25,000+** cars monthly.
- Scraped and analyzed auction data from **10** websites, evaluating resale potential using historical bid prices for over **100,000** vehicles each month.
- Conducted exploratory data analysis to uncover market demand trends and engineered new data features to support business strategy and vehicle valuation models.
- Designed a custom filtering system to flag high-profit vehicles, cutting sourcing overhead by over **85%** and optimizing purchasing decisions.

AwardEx - *Software Engineer*

JANUARY 2022 - DECEMBER 2023

- Constructed ETL pipelines to transform raw flight data from Sabre APIs into structured formats, supporting **60%** of the company's software applications and improving data consistency across platforms.
- Developed robust HTTP request modules using PHP (cURL, Guzzle) and Node.js (fetch, axios), coordinated via Playwright automation, to ensure seamless communication and data exchange among **5** internal APIs.
- Engineered efficient parsers for real-time extraction of flight information, increasing the platform's available content by **7%**, enhancing user search capabilities and customer satisfaction.

AwardEx - *Software Developer*

MARCH 2021 - DECEMBER 2021

- Collaborated with **6** travel agencies to analyze and translate complex airline commission structures into automated business logic, ensuring precise and efficient commission calculations.
- Developed automation scripts that reduced manual weekly commission calculations by **25–40%**, significantly improving operational productivity and accuracy for client organizations.
- Built and maintained a Puppeteer-based web scraper to regularly retrieve, transform, and ingest commission rules from over **100** airlines

Freelance - *Software Developer*

June 2020 - February 2021

- Developed Python Scrapy web crawlers to automate extraction of real estate data for **650,000+** Ohio parcels.
- Created ETL pipelines to streamline data processing, saving **25+** manual work hours per week.
- Improved software efficiency by **14%** through bug fixes and performance testing related to external data updates.

EDUCATION

University of San Diego - *M.S. in Applied Data Science*

JANUARY 2021 - DECEMBER 2023

University of California, Berkeley - *B.S. in Env. Economics and Policy*

AUGUST 2016 - MAY 2018

PROJECT

Unraveling the Dynamics of Airfare Price Predictions

Tools: Python, pandas, Scikit-learn, XGBoost, Neural Networks, SVR, Sabre BFM API

- Developed a machine learning pipeline to predict airfare prices based on flight amenities, addressing pricing uncertainty and limited filtering in flight aggregator platforms.
- Extracted and prepared data from Sabre's BFM API, gathering information on **75** of the most popular flight routes
- Engineered new features and applied **11** regression models including ElasticNet, Gradient Boosting, SVR, and Neural Networks.
- Evaluated model performance using MSE, RMSE, MAE, and R^2 ; with XGBoost consistently outperforming other models in cross-validation, offering the most reliable predictions.