# Dennis Myasnyankin

## **Data Scientist**

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### **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<sup>2</sup>; with XGBoost consistently outperforming other models in cross-validation, offering the most reliable predictions.