

Semyon Tsyrenov

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Education

Rockhurst University | B.Sc. in Computer Science

(August 2021 - May 2025 | Kansas City, MO)

- GPA: 3.53/4.0
- Honors and Awards: Dean's List (2021, 2023, 2024)

University of Missouri-Kansas City | Joint Engineering Program

(August 2022 - May 2025 | Kansas City, MO)

Relevant Courses: Introduction to Machine Learning, Probability and Statistics, Database Engineering, Data Structures, Programming Languages, Algorithms & Complexity, Operating Systems

- Applied machine learning algorithms (supervised and unsupervised) for data-driven predictions and clustering tasks
- Analyzed datasets using Python (Pandas, NumPy) and R for statistical modeling
- Built and managed relational databases with SQL/MySQL for efficient data storage and retrieval
- Developed interactive dashboards and data visualizations with Power BI and Tableau to communicate key insights

Major Projects

Tennis RAG Model | Python, HuggingFace, FAISS

(March 2025)

- Developed a Retrieval-Augmented Generation (RAG) system to answer natural language questions about ATP players
- Built a FAISS vector store and converted tennis bios into semantic embeddings using sentence transformer
- Used the HuggingFace FLAN-T5 model to generate answer based on retrieved context
- Designed a simple GUI in VS Code to handle user input and display generated responses

ATP Tennis Scraper | Python Package in PyPI

(January 2025)

- Published a Python package that scrapes ATP top 10 tennis player stats
- Managed Git workflows with feature branches, pull requests, and squash-and-merge
- Designed a reusable package structure with automated PyPI deployment

Machine Learning Project | Python, scikit-learn, pandas, matplotlib

(January 2025 - Present)

- Analyzed real-world datasets using regression, classification, and clustering methods
- Preprocessed data by handling missing values, outliers, and feature scaling, improving model performance and accuracy
- Evaluated models using accuracy, precision, recall, F1-score, and confusion matrices

Skills

- **Data Analysis & Visualization:** Python, SQL, pandas, NumPy, scikit-learn, Matplotlib, Power BI, Tableau, Excel
- **Tools & Technologies:** HuggingFace, MySQL, RESTful APIs, AWS, Git, JIRA, Postman, Linux, Windows, macOS

Work Experience

Chita Universal | Freelance Web Developer

(September 2024 - December 2024 | Kansas City, MO)

- Designed and developed an e-commerce website, increasing revenue by \$5,000
- Created and integrated a digital product catalog
- Customized layout and UI using HTML, CSS, and Squarespace

Genesis Health Clubs | Operations and Tennis Coaching Associate

(May 2024 - Aug 2024 | Kansas City, MO)

- Managed member concerns using CRM software
- Designed and led personalized tennis training programs

Extracurricular Activities

- Ranked Top 10 nationally in Division 2 Tennis Singles and won the Midwest Regional Championship in 2024
- Shared educational tennis tips and insights on [social media](#), building an engaged community and promoting the sport
- Proficient in English, Spanish and Russian languages