Nicholas Turenne

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Projects

UFC Fight Outcome Predictor – NOVEMBER 2025 - DECEMBER 2025 – *Python, Solo, Personal*
- Built a time-aware UFC fight outcome predictor using LightGBM, preventing data leakage by training only on past fight data incrementally gathered during dataset construction.
- Engineered matchup advantage features (strike, takedown, submission, control time metrics) for robust input.
- Reduced corner bias through fight mirroring and identified model behavior using SHAP feature analysis.

Transcript Analysis – NOVEMBER 2025 - DECEMBER 2025 – *Python, Solo, Personal*
- Designed a modular data analysis pipeline to clean, analyze, and visualize academic performance data.
- Engineered weighted GPA and course difficulty metrics using credit-weighted grade points.
- Compared personal GPA trends against class averages across academic terms using custom visualizations.

Student Success Experiment – MAY 2025 - AUGUST 2025 – *Python/SQL, Group, Professional*
- Performed ETL processes on large amounts of student data in Microsoft Fabric to extract necessary information to construct a predictive model.
- Conducted exploratory data analysis to identify patterns, anomalies, and KPI's using visualizations and statistical summarizations.
- Assisted senior data scientists in developing a predictive model using scikit-learn to identify leading indicators to successfully classify student success or failure.

Technical Skills

Languages: Python, C#, C/C++, Rust, SQL, R, MATLAB, Java, Kotlin, JavaScript
Frameworks & Tools: scikit-learn, LightGBM, Azure, Power BI, Microsoft Fabric, Unity, Godot, Android Studio
Concepts: Data Analysis, ETL Pipelines, Databases (Relational & NoSQL), Machine Learning & AI, Object-Oriented Programming, Functional Programming, Data Warehousing, Data Zones, Active Directory

Work Experience

Junior AI and Data Analyst – *SFU'S Big Data Hub* – MAY 2025 - AUGUST 2025
- Worked in an agile scrum environment to effectively complete tasks on time.
- Collaborated with data scientists to implement a predictive model to identify student success.
- Designed and implemented data zones and overall data architecture to migrate disparate departmental silos into a unified cloud-based platform (Microsoft Fabric).

IT Analyst – *Shared Services Canada* – MAY 2023 - DECEMBER 2023
- Assisted clients in troubleshooting various technical issues to give clients a smooth work experience.
- Managed creation, transfer, and removal of client emails using Active Directory to ensure a smooth transition.

Education

B.Sc. Computing Science – *Simon Fraser University* – SEPTEMBER 2020 - DECEMBER 2025
- Cumulative GPA: 3.53, Computing Science GPA: 3.72
- Dean's Honour Roll: SPRING 2023, SPRING 2024

Certifications and Awards

UiPath Studio Essential Training – *LinkedIn Learning* – JUNE 2025
Introduction to Microsoft Fabric by Microsoft Press – *LinkedIn Learning* – MAY 2025