

Evan Denholm-Chapman

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EDUCATION

King Edward VII School, Sheffield, England, United Kingdom	Sep.2023-Jun.2025
A-Levels: Computer Science, Mathematics, Further Mathematics, Economics, Extended Project Qualification (Quantum Computing)	
Handsworth Grange Community Sports College, Sheffield, England, United Kingdom	Sep.2018-Jun.2023
GCSEs: A*s/A, Biology (9), Chemistry (9), Physics (9), Business (9) (D*), English Speaking (9) (D*), Math (8), Statistics (8), Computer Science (8), History (7), English Literature (7), English Language (5)	

EXPERIENCE

Arm, Software Engineer Internship (Python), Sheffield, England, United Kingdom	Mar.2024-Apr.2024
<ul style="list-style-type: none">Led a team of software engineers in a structured development process to design and implement a Python-based satellite telemetry system using micro: bits, collecting real-time position and speed data to determine optimal parachute deployment timing.Engineered efficient Python algorithms on micro: bit devices to process telemetry data with high accuracy, enabling reliable decision-making in critical mission scenarios.Collaborated cross-functionally to integrate micro: bit hardware with satellite systems, ensuring robust performance and system reliability under real-world conditions.	
Starbucks, Barista, Sheffield, England, United Kingdom	Oct.2023-Jan.2024
<ul style="list-style-type: none">Delivered fast, high-quality service in a high-pressure environment, honing time management, multitasking, and adaptability.Handled cash and digital transactions with precision, strengthening attention to detail and reliability.Collaborated with a diverse team to optimize workflow and achieve daily goals, developing teamwork, collaboration, and communication skills.Resolved customer concerns effectively, demonstrating problem-solving, conflict resolution, and empathy.Maintained consistency and quality under stress, building resilience, accountability, and work ethic.	

PROJECTS

F1 Race Outcome Prediction – Random Forest (Python, scikit-learn, ML)	Aug.2025-Sep.2025
<ul style="list-style-type: none">Developed in Python using Pandas, NumPy, and scikit-learn to clean, preprocess, and merge ~50,000 historical race, driver, and constructor records, handling missing values, converting lap times, and assigning DNF positions, improving dataset consistency for modeling.Engineered features including driver stats, constructor performance, grid position, laps, and fastest lap times using Pandas and NumPy, increasing model ± 1 position prediction accuracy from 37% to 74%.Built and trained Random Forest Regressor models with scikit-learn, leveraging RandomizedSearchCV and a custom ± 1 position scoring function to optimize hyperparameters, achieving RMSE of 1.35 and R^2 of 0.78 on the test set.Automated data preprocessing, one-hot encoding, feature engineering, and model evaluation pipeline entirely in Python and scikit-learn, enabling scalable predictions and reproducible results across F1 race datasets.	

COVID-19 US Infection Time-Series Visualization (Python, Pandas, GeoPandas)	Jun.2025-Jul.2025
<ul style="list-style-type: none">Processed and merged ~3 million COVID-19 records with 3,142 US county shapefiles in Python using Pandas and GeoPandas, enabling county-level pandemic tracking across the US.Generated frame-by-frame choropleth maps with Matplotlib and Mapclassify, compiled into an animated GIF with ImageIO, providing week-by-week visual insights for over 3,000 counties.Optimized frame generation using Joblib parallel processing and NumPy, reducing runtime by ~80% for 200+ frames.Implemented configurable FPS, DPI, frame interval, and dark-mode aesthetics, and automated in-memory frame handling and cleanup, improving reproducibility and storage efficiency.	

SKILLS

Programming languages: Python, Java, HTML, CSS, JavaScript

Computer software / libraries / frameworks: PyTorch, OpenCV, Pandas, GeoPandas, Matplotlib, Plotly, scikit-learn, NumPy, Multiprocessing,

Languages: English (Native)