

Aidan Gauci

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ABOUT ME

First year BSc AI student with hands-on experience building production-ready data pipelines and full-stack websites. My recent work includes ETL workflows processing 1000+ records, data analytics obtained via APIs, and interactive web tools. Whether cleaning messy real-world datasets or building interactive frontends, I focus on turning data into actionable insights. I thrive in team-based environments where I can apply both my practical and theoretical knowledge to solve high-impact challenges.

EDUCATION

University of Malta

BSc in Artificial Intelligence

Msida, Malta

Expected Graduation 2028

- **Related Coursework:** Foundations of Data Science, Programming for AI, Databases and Information Management, Data Structures & Algorithms, Foundations of Artificial Intelligence, Mathematics of Discrete Structures.

Junior College

Matriculation Course

Msida, Malta

October 2023 – April 2025

- **A-Levels:** Pure Maths (B), Computing (B)

PROJECTS

Portfolio Website

March 2026

- Developed a responsive portfolio using semantic HTML5, CSS3, and vanilla JavaScript, implementing a mobile-first design for cross-platform accessibility.
- Built high-performance UI features, including scroll-based navigation highlighting via the IntersectionObserver API and interactive project cards with CSS transitions such as on hover filter effects to enhance text readability.
- Integrated automatic theme adaptation using CSS prefers-colour-scheme media queries and deployed the website to production through GitHub Pages using a secure, SSH-authenticated Git workflow.

Weather-Tourism Data Analysis

March 2026

- Engineered a comprehensive 15-year ETL pipeline correlating weather patterns with tourism trends, further supported through the integration of Google Trends to analyse search volume demand.
- Applied Lasso Regression (L_1 Regularisation) to identify and rank the most influential weather features, eliminating 2 redundant features, isolating 3 major positive contributors, and 1 major negative contributor.
- Created data visualisations to highlight trends and performed rigorous statistical analysis to isolate anomalous data points, enhancing the overall precision and reliability of findings.

European Wildlife Dataset Cleaning

March 2026

- Developed an end-to-end ETL pipeline using Pandas to transform 1011 raw records into 823 analysis-ready records.
- Standardized categorical data through pattern matching and validated geographic and biological measurements using domain research and statistical profiling, removing negative values and species-specific outliers.
- Implemented grouped imputation using country-based means and species medians for missing values, documenting all data decisions and logic in markdowns, ensuring reproducible logic for duplicate and null handling.

ACTIVITIES AND LEADERSHIP

University of Malta Group Projects

Msida, Malta

Team Leader

October 2025 – January 2026

- Coordinated a 3-person team to deliver an ETL workflow on a raw iGaming dataset containing over 27000 records and trained a Linear Regression model on this data to provide predictive data results.
- Delegated tasks, managed deadlines, performed code reviews, and polished work into one cohesive final product.

SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL

Libraries & Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

Tools & Platforms: Git/GitHub, Jupyter Notebooks, VSCode, GitHub Pages

Data Skills: ETL Pipelines, Data Cleaning, Statistical Analysis, Data Visualisation, Basic ML Models

Front-End Skills: Real-Time API Handling, UI/UX Design, Responsive Design, Themed Styling