Andrew Vick

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LinkedIn: https://www.linkedin.com/in/andrew-m-vick | Portfolio:
https://github.com/andrew-m-vick/portfolio | GitHub: https://github.com/andrew-m-vick

Data-driven analyst with expertise in Python, SQL, and Tableau, specializing in extracting actionable insights from large datasets and communicating them effectively through compelling visualizations. Experienced in developing data-driven solutions, including building an interactive dashboard to predict used car prices.

TECHNICAL SKILLS

Github, VBA, Data Visualization, Python, API Interactions, SQL, NoSQL, SQLAlchemy, MongoDB, MySQL, JavaScript, Pandas, Jupyter, ETL, HTML, CSS, Bootstrap, Leaflet, Tableau, PySpark, Scikit-Learn, Machine Learning, Databricks, Amazon Web Services

PROJECTS

Film Industry Analysis | https://github.com/andrew-m-vick/project-1-group-18 | Analysis

- **Summary:** Applied Python expertise to dissect film industry data, revealing box office trends and key performance indicators for genres, distributors, and budget impact.
- **Role:** Spearheaded the development and application of regression models to uncover the relationship between budget and profit across various film genres.
- **Tools:** Python, Pandas, matplotlib, Jupyter Notebook

Crowdfunding ETL | https://github.com/andrew-m-vick/Crowdfunding_ETL | Analysis

- **Summary:** Utilized SQL to design a relational database, extract and transform raw data, and perform insightful analysis patterns and trends in crowdfunding campaigns.
- **Role:** Drove the analysis of the crowdfunding database, utilizing SQL for data extraction and transformation, and crafting insightful visualizations to uncover key trends and patterns that can inform strategic decision-making.
- **Tools:** SQL, PostgresSQL, Pandas, Numpy, matplotlib, Jupyter Notebook, QuickDBD

Air Quality Web App | https://github.com/andrew-m-vick/project-3-group-08 | Web App

- **Summary:** Developed an interactive web application to visualize global air quality data, raising awareness of pollution's impact through dynamic maps and charts.
- **Role:** Led the development of the interactive map, the centerpiece of the web application, enabling users to explore and visualize global air quality data in an intuitive and impactful manner.
- **Tools:** Python, Flask, SQL, SQLite, JavaScript, HTML, CSS, pgAdmin, VS Code, Jupyter Notebook

Used Car Web App | https://github.com/andrew-m-vick/project-4-group-01 | Web App

- **Summary:** Developed a machine learning model and dashboard to predict used car prices on features like make, model, year, mileage, and fuel type, providing insights for consumers and dealerships.
- **Role:** Created the Tableau Story, developed the website's front-end and back-end, and implemented the machine learning model into the website.
- **Tools:** Python, Flask, Scikit-Learn, Tableau, HTML, CSS, JavaScript, VS Code, Jupyter Notebook

EXPERIENCE

Indigena Capital Dallas, TX

- **Data Analyst / Developer** (2024-Present)

- **Cleaned and structured agricultural datasets:** Standardized and validated harvest data across multiple crop types and irrigation pivots to ensure data integrity and readiness for analysis.
- **Developed an interactive Tableau Story:** Built a comprehensive Tableau dashboard presenting detailed analyses of harvest performance, crop yields, and pivot-level productivity trends to support strategic investment decisions.
- **Created geographical data visualizations:** Designed and implemented a geographical heat map to visualize crop distribution and yield performance across pivots, enabling rapid spatial insight into agricultural efficiency.
- **Built a predictive web application:** Designed and deployed a Flask-based web app integrating a machine learning model to predict crop harvest outputs based on environmental and operational data inputs.
- **Enhanced data-driven decision-making:** Combined business intelligence tools and predictive modeling to provide actionable insights into agricultural operations and investment strategies.

Zabs Asian Bistro Houston, TX

- **Owner** (2018-2020)

- **Leveraged data for business insights:** Monitored sales data, customer reviews, and operational costs to identify areas for improvement and inform strategic decision-making.
- **Implemented data-driven marketing strategies:** Utilized customer demographic data and online engagement metrics to target marketing efforts and promotions effectively.
- **Inventory Management:** Analyzing inventory levels and usage patterns to optimize stock levels, reduce waste, and ensure efficient supply chain management.
- **Menu Optimization:** Evaluating menu item popularity and profitability to make data-driven decisions on pricing and menu offerings.

Morningside Thai Restaurant Houston, TX

- **Manager** (2015-2017, 2020-2025)
  - **Utilized data for process improvement:** Tracked and analyzed key performance indicators (KPIs) such as table turnover rates and customer feedback, implementing data-driven strategies to enhance the dining experience.
  - **Developed data-driven training programs:** Created and refined training materials based on performance metrics and customer satisfaction data, ensuring consistent service quality.

Morningside Thai Restaurant Houston, TX

- **Waiter** (2014-2015)
  - **Collected and organized data:** Accurately recorded customer orders and preferences, ensuring integrity for efficient kitchen operations.
  - **Analyzed customer behavior patterns:** Identified trends in popular dishes and peak dining times, contributing to optimized staffing and inventory management

EDUCATION

Certificate, Data Analytics & Visualization – Rice University Houston, TX