

Ewan A. Smith

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EDUCATION

Texas A&M University

B.S. in Computer Engineering

College Station, Texas

EXPERIENCE

Toi et Moi

Plano, Texas

Fine Jewelry Sales Associate

Jan 2023- Aug 2023

- Increased sales and customer satisfaction through personalized servicing.
- Oversaw and processed payments made by credit and debit cards and cash using the POS system
- Demonstrated in-depth product knowledge, assisting customers in making informed purchasing decisions based on their style preferences and budget considerations.

PROJECTS

Machine Learning Stock Predictor

Python, Sklearn, Pandas

- Developed a predictive model for the S&P 500 using Yahoo's yfinance API to import current and historical data, and created target variables for next-day market movement predictions.
- Applied a Random Forest Classifier with 200 estimators and a minimum sample split of 50 to ensure robustness in the model.
- Designed a backtesting function to validate the model on over 30 years of historical data, ensuring comprehensive performance evaluation and increasing precision score by 5%.

Full-Stack Movie Recommender

Python, Sklearn, Flask, Tailwind CSS, HTML, Pandas

- Developed a full-stack movie recommendation system using Flask, Pandas, and Scikit-learn, providing personalized movie suggestions based on user ratings and genres.
- Implemented a content-based filtering algorithm using TF-IDF vectorization and cosine similarity, efficiently processing and analyzing a dataset of over 25 million movie ratings and 62,000 movie titles.
- Enhanced the user interface with Tailwind CSS for a modern, responsive design, ensuring a seamless user experience across different devices and screen sizes.

Database Shopping Cart

HTML/CSS, Javascript, Firebase

- Optimized front-end performance by employing efficient coding practices and leveraging Firebase's real-time updates for a smooth and dynamic shopping experience.
- Implemented responsive design principles and mobile-first approaches to ensure a consistent experience across various devices, enhancing user accessibility.
- Developed a dynamic and user-friendly shopping cart web application using HTML, CSS, and JavaScript, ensuring seamless cross-browser compatibility and intuitive design.

SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, SQL, C++

Frameworks/Libraries: Spring Boot, Tailwind CSS, Firebase, Sklearn, Flask, Pandas

Tools/Certifications: Word, Excel