ESHAAN ARORA

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EDUCATION

The University of Texas at Austin – **McCombs School of Business** | Austin, TX — May 2025
Master of Science, Business Analytics

Florida State University | Tallahassee, FL — July 2021
Bachelor of Science, Finance and Economics

EXPERIENCE

Fidelity National Information Services, Inc (FIS) – *Senior Auditor* | St. Petersburg, FL — September 2021 - June 2024
- Staffed and led 10+ data-driven audit engagements in operations, IT, etc., identifying cost saving opportunities worth $1mm+
- Made over 100 findings on value-add observations relating to data security and compliance, upholding company integrity
- Produced comprehensive audit reports, influencing executive decision making on risk reduction strategies and reducing compliance gaps by 50% year-over-year

Florida Department of Economic Opportunity – *Program Analyst Intern* | Tallahassee, FL — March 2021 - July 2021
- Transitioned a $50 million loan program to Salesforce, streamlining loan administration
- Analyzed repayment metrics and revised procedures, identifying risk factors and optimizing approval time by 50%
- Migrated 5,000+ state municipal bond records to Salesforce, improving data accessibility for stakeholders

TECHNICAL PROJECTS

Connect 4 AI: Full Stack Machine Learning System – *University of Texas at Austin* — February 2025
- Developed and deployed a deep learning AI to play Connect 4, using Monte Carlo Tree Search (MCTS) for dataset generation and a ResNet-like CNN, achieving 70% validation accuracy
- Built an interactive web app with Anvil and AWS, containerizing models with Docker and integrating gameplay via Anvil Uplink
- Implemented a full-stack ML pipeline, covering data collection, model training (CNN & Transformer), cloud deployment, and UI development for seamless user interaction

ScanSense AI: Enhanced Self-Checkout with Machine Learning – *University of Texas at Austin* — December 2024
- Developed an AI-powered self-checkout system using ResNet architecture to classify non-barcoded grocery items with 78.6% validation accuracy, addressing challenges like plastic bag obstructions and poor lighting
- Implemented data augmentation techniques and Cost-Aware Fallback Strategy to improve model robustness and minimize financial losses from misclassification
- Leveraged OpenCV for image preprocessing and segmentation, enhancing accuracy

Predicting Michelin Star Potential with Data Analytics – *University of Texas at Austin* — October 2024
- Analyzed 78,000+ restaurant reviews using LDA, Sentiment Analysis, and N-gram Analysis to uncover trends in dining experiences
- Predicted Michelin Star potential for 10 Austin restaurants, identifying key differentiators (e.g., chef personality, review depth)
- Extracted actionable insights for restaurateurs by quantifying sentiment drivers and thematic patterns in customer reviews

DIY Spotify Wrapped: Comprehensive Spotify Song History Analysis – *Personal Project* — September 2024
- Developed an interactive analysis tool in Python to process and visualize Spotify listening data
- Leveraged libraries like Matplotlib and Pandas to identify listening patterns and preferences from historical datasets
- Delivered data-driven insights on peak listening times and music habits, creating a customizable alternative to Spotify Wrapped

TECHNICAL SKILLS

- **Programming & Data Analysis:** Python, R, SQL, Pandas, NumPy, Matplotlib, Tableau, Seaborn
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Topic Modeling (LDA), Sentiment Analysis, TextBlob
- **Tools & Platforms:** Snowflake, SQL Server, Salesforce, BeautifulSoup, Selenium, AWS, Azure, Git, Excel, Neo4j

ADDITIONAL INFORMATION

Languages: Fluent in Hindi, Conversational in Spanish (B2 Level)
Interests: Chess, Duolingo, World History
Work Eligibility: Eligible to work in the United States with no restrictions