

# ESHAAN ARORA

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## EDUCATION

**The University of Texas at Austin - McCombs School of Business** | Austin, TX  
Master of Science, Business Analytics

May 2025

**Florida State University** | Tallahassee, FL  
Bachelor of Science, Finance and Economics

July 2021

## EXPERIENCE

**SS&C, Inc** - Associate Quantitative Financial Engineer Intern | Austin, TX

December 2024 - May 2025

- Increased financial information accessibility by 45% through developing a RAG chatbot with OpenAI API, LangChain, and HuggingFace, achieving 92% accuracy in financial Q&A responses
- Reduced data collection time by 65% by engineering automated ETL pipelines that integrated more than 10,000 financial data points
- Reduced workload by 40% and boosted accuracy by 25% by designing a predictive risk analysis engine measuring macroeconomic exposure

**Fidelity National Information Services, Inc (FIS)** - Senior Audit and Risk Analyst | St. Petersburg, FL

September 2021 - June 2024

- Led 10+ quarter-long data-driven audit engagements across operations/IT, identifying \$1mm+ in savings/efficiencies for enterprise clients
- Discovered over 100 high-impact data security and compliance gaps through anomaly detection, reducing vulnerabilities by 35%
- Translated complex data findings into executive-level audit reports that drove strategic risk mitigation decisions, reducing compliance gaps by 50% YoY and establishing new data governance standards
- Performed data analysis on enterprise datasets to identify control failure patterns, improving early risk detection by 40%

**Florida Department of Economic Opportunity** - Program Analyst Intern | Tallahassee, FL

March 2021 - July 2021

- Migrated a \$50mm loan program to Salesforce, implementing dashboards and reporting to streamline loan administration by 30%
- Analyzed repayment metrics and revised procedures, identifying risk factors and optimizing approval time by 50%
- Designed and executed ETL processes to migrate 5,000+ municipal bond records to Salesforce, creating custom visualizations that improved data accessibility and reduced stakeholder reporting requests by 65%

## 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
- Performed hyperparameter tuning and model optimization using cross-validation techniques, increasing model performance by 15% and reducing inference time by 30%

**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-barcode grocery items with 78.6% validation accuracy, addressing challenges like plastic bag obstructions and poor lighting
- Implemented data augmentation techniques to improve model robustness and minimize 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

- Predicted Michelin Star potential for 10 Austin restaurants by analyzing 78k+ reviews with NLP (LDA, Sentiment, N-gram), identifying key differentiators and quantifying sentiment drivers to deliver actionable insights

## TECHNICAL SKILLS

- Programming & Data Analysis:** Python, R, SQL, Pandas, NumPy, Matplotlib, Tableau, Power BI, Seaborn, A/B Testing, Excel
- Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Sentiment Analysis, Feature Engineering, Classification, Regression, Clustering
- Tools & Platforms:** Snowflake, SQL Server, Salesforce, ETL Pipelines, AWS (S3, EC2, Lambda), Azure, Git, Excel (Advanced), Neo4j, Docker

## ADDITIONAL INFORMATION

**Languages:** Fluent in Hindi, Conversational in Spanish (B2 Level)

**Professional Development:** Pursuing GCP and AWS Certifications, Passed CIA Part 1 Exam

**Interests:** Chess, Duolingo, World History