# SHANEEZA HASNANI, CFE

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## TECHNICAL SKILLS

**Programming & Data:** R, Python, SQL, C++, Scala, SAS, SPSS
**Visualization & BI:** Tableau, Microsoft Power BI, Excel (Advanced)
**Machine Learning:** Random Forest, Logistic Regression, Decision Trees, Anomaly Detection, Predictive Analysis

## EDUCATION

**American University, Kogod School of Business** — **Washington, DC**
*Master of Science in Business Analytics & AI* — *December 2026*
Concentration: Data Science

**CUNY John Jay College of Criminal Justice** — **New York, NY**
*Bachelor of Science in Fraud Examination and Financial Forensics* — *May 2025*
Minor: Computer Science
GPA: 3.87 | Dean's list 2022-2025 | *Cum Laude, Honors in Major*

## PROFESSIONAL EXPERIENCE

**EduGuide Overseas Pvt. Ltd.** — **Mumbai, India**
*Fraud Data Analyst* — *June 2021 – Present*

- Engineer anomaly detection models in Python (Random Forest, Logistic Regression).
- Classify an average of 200k+ high-risk transactions monthly using a self-developed model.
- Enhance fraud detection accuracy by 25%.
- Analyze 500+ payment datasets monthly using SQL and Python.
- Reduce suspicious student applications by 20% annually via automated scoring pipelines.
- Design and automate Power BI dashboards, streamlining review time by 15%.
- Deliver prescriptive, data-driven recommendations to admissions, compliance, and IT teams.

**Guidehouse, Inc.** — **New York, NY**
*Financial Crime & Investigative Services Intern* — *June 2024 – August 2024*

- Developed and optimized fraud detection workflows for 20,000+ ACH/wire transfers.
- Applied feature engineering and SQL-based data preparation.
- Detected 50+ high-risk transaction patterns.
- Presented capstone on wire transfer anomaly detection.
- Integrated ML and risk scoring to strengthen compliance monitoring by 30%.
- Influenced directors through technical presentations and solution adoption.

**State of New York, Office of the Attorney General, Medicaid Fraud Control Unit** — **Hauppauge, NY**
*Fraud Audit Intern* — *June 2023 – August 2023*

- Conducted data analysis on provider billing and claims transactions.
- Collaborated across four Medicaid fraud investigations.
- Identified $500K+ in recovery anomalies using SQL and statistical validation.
- Consulted with investigators to streamline evidence review.
- Leveraged prescriptive analytics to accelerate fraud case resolution by 20%.

## PROJECTS

**Computer Networking, CUNY John Jay College of Criminal Justice** — **New York, NY**
*Credit-Card Transaction Fraud Model - Python, Excel* — *October 2024*

- Engineered Random Forest and Decision Tree classifiers on 10,000+ real-time transactions.
- Attained 99.96% accuracy and 97.25% recall for abnormal payment detection.
- Optimized hyperparameters to elevate Random Forest recall to 77.9%.
- Regulated false positives under 0.02%, enabling reliable deployment for financial institutions.

## CERTIFICATIONS AND AWARDS

**Certifications**: Certified Fraud Examiner (CFE) – 2025
**Awards**: ACFE Ritchie-Jennings Memorial Scholarship – 2024

## APPENDIX:
## LISTING OF THE CORE MAJOR AND MINOR COURSES AT THE GRADUATE AND UNDERGRADUATE LEVELS

**Graduate: American University, Kogod School of Business**

- August 2025 – Present
- Applied Managerial Statistics
- Business Insights and Analytics
- Business Intelligence
- Database and AI
- Managing Digital Organization
- Pred Analytics and Machine Learning
- Quantitative Methods and Data Analysis

**Undergraduate: CUNY John Jay College of Criminal Justice**

August 2022 – May 2025

- Accounting Information Systems
- Advanced Data Structures
- Computer Networking
- Corporate White-Collar Crime
- Culture and Crime
- Data Analytics for Fraud Examination
- Databases and Data Mining
- Digital Forensics Fraud
- Ethical Theory
- Ethics and Information Technology
- Fraud Examination and Financial Forensics
- Introduction to Accounting
- Introduction to Computer Programming
- Introduction to Criminal Investigations
- Introduction to Microeconomics
- Introduction to Psychology
- Introduction to Sociology
- Intermediate Accounting
- Islamic History
- Mathematical and Quantitative Reasoning
- Object Oriented Programming
- Pluralism and Law
- Principles of Forensic Science
- Seminar on Forensic Financial Analysis
- Sex and Cultural Diversity
- Social Science Mathematics
- Statistics Principal and Methods
- Topics in Fraud and Financial Forensics
- Understanding US Economic Data
- US Experience in its Diversity