

# SHIVANI PANDEY

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## EDUCATION

### UNIVERSITY OF KENTUCKY

Master of Science in Finance (STEM Program) with a focus on Analytics

Lexington, KY

Dec 2024

**Relevant Coursework:** Data Mining, Predictive Analytics, and Data visualization, Financial Mathematics, Investment strategies

### COLLEGE OF ENGINEERING PUNE(COEP) TECHNOLOGICAL UNIVERSITY

B. Tech in Electrical Engineering

Pune, India

May 2018

## SKILLS

**Programming Languages:** Java, Python (NumPy, Pandas, Scikit-learn, TensorFlow), R Programming, SQL

**AI & Machine Learning:** NLP, LLMs, RAG architecture, search optimization techniques, predictive modelling

**Cloud & Data:** AWS (S3), Google Cloud/Vertex AI, REST APIs, JSON/CSV, Git

**Data Visualization Tools:** Tableau, Power BI

**Tools & Technologies:** Visual Studio, Android Studio, MATLAB, Jira, MS Excel; **Big Data Processing:** Hadoop, Airflow, BigQuery

## PROFESSIONAL EXPERIENCE

### MOTOROLA SOLUTIONS INC

May 2024 – Present

#### Data Scientist

- Designed and built a chatbot on Google Cloud (Vertex AI / LLM) to deliver interactive training modules for call-center agents across multiple teams. Implemented prompt/response pipelines, safety/guardrails, and content routing.
- Designed Tableau dashboards to monitor agent KPIs (accuracy, handle time, resolution, NPS proxies), with drilldowns by team/tenure and trend visuals for coaching. Enabled supervisors to spot outliers and track impact of training interventions.
- Hydra Stratus ML competition (MSI): Built a runtime-prediction model for Hydra Stratus (radio network coverage & traffic simulation). Engineered features from terrain, site configuration, and algorithm parameters; evaluated regression baselines via cross-validation; delivered a simplified duration estimator used for UI progress indicators and cloud resource sizing.
- Integrated LLMs with RAG to return contextual responses grounded in internal knowledge bases; improved accuracy/consistency of answers while reducing hallucinations.
- Data pipeline & reporting: Engineered an AWS-based ingestion flow to transform unstructured inputs to JSON and sync with S3 under compliant partitions, cutting processing time ~50% and speeding dashboard refreshes.

### UNIVERSITY OF KENTUCKY

Jan 2024 – Dec 2024

#### Business Analytics Assistant

- Designed and led hands-on training sessions for students in **R, Python, Tableau, Advanced Excel, and Pivot Tables**, guiding them through real-world business analytics projects, including **data wrangling, statistical modeling, and visualization**.
- Guiding students in **building predictive models**, performing advanced data manipulation, **executing ETL processes**, and creating interactive dashboards while troubleshooting technical issues in business intelligence reporting and workflow automation.

### LONDON STOCK EXCHANGE GROUP

Sep 2021 – Feb 2023

#### Business Analyst

- Developed and streamlined client onboarding automation using **Python, PowerShell, and SQL**, reducing institutional client setup time by **20%**, ensuring seamless **ALGO/DMA certification** and integration with the trading platform.
- Led business analysis for trade execution workflows, utilizing **ETL processes** to identify and resolve complex issues in **FX, Equities, and Derivatives**, while optimizing Order Execution Management (EMS) workflows to enhance trade efficiency and success rates.

### FINIQ CONSULTING PVT LTD

Jul 2018 – Aug 2021

#### Software Developer

- Designed, developed, and optimized high-performance **Java applications** for a cloud-based electronic **trading platform**, enabling seamless Financial Information Exchange (**FIX**) **engine integration** and enhancing structured product trading workflows.
- Implemented database optimizations in **SQL**, reducing **FIX message processing time by 85%** through stored procedure enhancements and index tuning.
- Automated performance analytics and client onboarding insights by developing **Python-based data pipelines** and **Tableau dashboards**, improving onboarding efficiency by **40%**.

## ACADEMIC PROJECTS

### Churn Prediction Online Learning

Fall 2024

- Developed a predictive churn model for an online learning platform by leveraging both structured and unstructured data.

### Credit Card Fraud Prediction with Machine Learning (Python, Numpy, Pandas, scikit-learn)

Fall 2023

- Developed a machine learning model using various machine learning algorithms (Random Forest, Logistic Regression, etc) with scikit-learn to detect fraudulent credit card transactions in real-time, minimizing financial losses for a financial institution.

### Investment Portfolio Risk Analysis and Optimization

Fall 2019

- Developed an optimization tool using historical data, **risk-adjusted return metrics**, and **Monte Carlo simulations** to support balanced portfolio allocation.

## LEADERSHIP & AWARDS

- Recognized for excellence at the start of my career and entrusted with the opportunity to lead an onsite team in Singapore.
- Qualified for the national-level chess tournament representing Oman