

# RUCHIRA LOKHANDE

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## SUMMARY

Business Analytics Master's candidate specializing in machine learning, statistical modeling, and predictive analytics to translate complex data into actionable business strategy. Skilled in optimizing business processes and informing strategic decisions through in-depth data analysis and the development of interactive dashboards using Python, SQL, and Tableau.

## EDUCATION

### University of California, Davis

San Francisco, CA

Master of Science, Business Analytics (3.59/4.0)

Expected August 2025

- *MSBA Fellowship Scholar | Beta Gamma Sigma Honor Society, Inducted 2025*
- **Relevant Coursework:** Machine Learning, Statistics, Big Data Analytics, Data Management, Analytical Decision Making.

### Symbiosis Institute of Technology

Pune, IN

Bachelor of Technology, Information Technology (3.55/4.0)

July 2019 - June 2023

- **Honors:** Artificial Intelligence and Machine Learning
- **Relevant Coursework:** Agile Software Development, Project Management, Deep Learning, Neural Networks.

## PROFESSIONAL EXPERIENCE

### De Fonte Law, Practicum Project

San Francisco, CA

Business Analyst

September 2024 – June 2025

- **Analyzed** 5+ years of operational and financial data for an estate planning law firm, delivering actionable insights that directly informed strategic decision-making and **optimized key firm operations**.
- **Leveraged Python** for in-depth **time-tracking and lead conversion analysis**, identifying critical workflow bottlenecks and high-drop-off channels, and provided data-driven recommendations to **improve efficiency by an estimated 10%**.
- Conducted comprehensive **competitive analysis of 12 competitors** using **web scraping and data-driven research**, yielding critical market insights that informed a **strategic roadmap** for market differentiation.
- Designed and deployed 2 interactive **Tableau dashboards** that synthesized data into **trackable KPIs**, providing critical visibility into client acquisition trends and lawyer workload to inform strategic decision-making.

### Deloitte US-India

Bangalore, IN

Analyst

January 2024 – May 2024

- Excelled in **Deloitte's Analyst Training Program** by achieving a 100% first-pass rate on 2 rigorous technical assessments, demonstrating rapid mastery of core business processes and analytical methodologies critical for delivering client solutions.
- Developed hands-on proficiency with enterprise-level data solutions, gaining expertise in **SQL, Python, Data Warehousing, ETL processes, and Informatica (PowerCenter & IICS)**.

### AI4M Technology Pvt. Ltd.

Pune, IN

Business Analyst Intern

January 2023 – July 2023

- **Employed computer vision and machine learning** to **identify manufacturing bottlenecks**, improving defect detection accuracy by **10%** using **KNN, XGBoost, Random Forest, and CNN models**.
- **Crafted and deployed Figma-based dashboards** for **real-time defect tracking**, **reducing design iterations by 25%** and enhanced performance monitoring.
- **Directed 4 cross-functional projects** from planning to delivery, overseeing unit testing, User Acceptance Testing (UAT), and stakeholder coordination to ensure **on-time, error-free execution**.
- **Collaborated with clients** to gather technical requirements, develop detailed documentation, formulate use cases, and deliver demo presentations for **AI-driven manufacturing solutions**.

## PROJECTS

**Text Summarization Model Comparison** – Fine-tuned **T5, BART, and PEGASUS** transformers on the CNN/Daily Mail dataset using **Hugging Face**; evaluated performance with **ROUGE metrics**, identifying T5 as the top performer.

**Portfolio Optimization System** – Applied **regression, K-Means, and Random Forest** to predict risk adjusted returns; improving portfolio Sharpe Ratio by 15% through a custom analytics pipeline.

**Gold Price Prediction** – Scraped real-time data with **UiPath**, trained models (Random Forest, Lasso, Decision Tree) to forecast gold prices for the next quarter.

**Lending Club Loan Analysis** – Designed **3NF schema** and advanced **SQL pipelines**; visualized borrower behavior using **Tableau dashboard**.

## SKILLS AND CERTIFICATIONS

**Skills:** Data Analysis, Data Management, Data Warehousing, KPI Tracking, Data Visualization & Dashboarding, Statistical Modeling, Predictive Analytics, Machine Learning, Natural Language Processing (NLP), A/B Testing, Cross-Functional Communication.

**Technologies:** Python (Pandas, NumPy, Scikit-learn), SQL, R, Tableau, Excel, PowerPoint, Hugging Face (Transformers), Informatica PowerCenter & IICS, Figma, Streamlit, Google Cloud.

**Certifications:** Tableau Certified Desktop Specialist (Tableau), Goldman Sachs Risk Job Simulation (Forage), Software Processes and Agile Practices (Coursera)