Manasi Rajan Variar

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SUMMARY

I am a graduate student who has 2+ experience in transforming complex data into actionable insights. With hands-on experience in **business intelligence**, **data analytics**, and **visualization**, I am skilled in **SQL**, **Python**, and **ETL** for creating data pipelines and models and proficient in using **Tableau**, **Power BI**, and **Excel** for effective data presentation and analytics. Driven by **customer obsession**, a commitment to **high standards**, and a focus on **delivering results**, I aim to leverage my analytical skills to contribute to data-informed strategies and support decision-making processes in a dynamic, **customer-centric environment**.

EDUCATION

Arizona State University, Arizona, USA 05/2026 (Expected)
Master of Science in Robotics & Autonomous Systems (Artificial Intelligence) *3.9/4.0*
University of Mumbai, Maharashtra, IN 05/2022
Bachelor of Engineering in Information Technology (Top 3rd in entire batch) *9.14/10*

Relevant Courses: *Linear Algebra, Robotics Systems, Advances in Robot Learning, Artificial Intelligence, Data Structures & Algorithms, Operating Systems, Object-Oriented Design, Advanced Database Management Technology, Data Mining and Business Intelligence, Cloud Computing, Big Data*

TECHNICAL SKILLS

Programming & Databases: Python (Pandas, NumPy, Seaborn, Matplotlib, SciPy, Scikit-learn), **SQL**, **R,** PL/SQL, Java, C++
Frameworks/Tools: Flask, Docker, ROS, AWS Lambda, Git, JIRA, PostgreSQL, REST APIs
Concepts: Object-Oriented Programming, Distributed Systems, Optimization, System Design, Robotics Simulation
ML Techniques: Classification, Clustering, Model Optimization (Hyperparameter Tuning, Cross-validation), **Exploratory Data Analysis**, Statistical Analysis (Hypothesis Testing, Probability Distributions, Inferential Statistics), Large Language Models, Deep Learning (CNN, RNN, GAN)
Certifications: Problem-solving (Intermediate), **Gold** Badge in Hackerrank Python

PROFESSIONAL EXPERIENCE

Data Engineer - *LTIMindtree Ltd., Navi Mumbai, India* 01/22 – 07/24

- Built highly scalable data pipelines with **Spark & Hadoop**, handling 10M+ daily transactions, reducing batch processing time by 35%.
- Designed **interactive dashboards** and real-time reporting solutions using Tableau, Power BI, and Google Data Studio to support faster executive decision-making across departments.
- Streamlined **ETL operations** and data validation with custom Python scripts and optimized Oracle PL/SQL queries, cutting manual intervention by 40%.
- Led complex data analytics initiatives using Python (Pandas, NumPy, Seaborn) to **uncover hidden trends**, directly increasing operational efficiency.
- Collaborated cross-functionally to ensure scalable reporting systems, contributing to more consistent data governance practices.

Machine Learning Intern - *Clover Continuity, Remote* 06/21 – 09/21

- Developed automated **data ingestion** solutions across multiple financial platforms, improving analyst productivity by 15+ hours weekly.
- Implemented data cleaning by handling missing data, removing outliers, and standardizing formats using **Pandas & NumPy**, enhancing dataset accuracy for downstream analysis by 98%.
- Evaluated and **fine-tuned predictive models** including Random Forest and Gradient Boosting to forecast stock price movements, increasing equity prediction accuracy by 20% compared to previous models.

ACADEMIC/PERSONAL PROJECTS

Coin Market Prediction System | Link

- Engineered a forecasting solution for cryptocurrency markets, achieving an accuracy rate of 85%.
- Integrated visual storytelling via Tableau and Seaborn to aid in understanding complex market behavior.
- Utilized data visualization tools like Matplotlib and Seaborn to make trends easier to understand.
- Developed a system to detect and fix data errors using statistical methods and machine learning.

Bank Loan Predictor | Link

- Built a machine learning model to estimate loan approval likelihood, achieving high predictive accuracy.
- Developed a predictive analytics solution leveraging XGBoost and logistic regression, achieving 85% accuracy.
- Applied targeted feature engineering methods to refine model output and reduce bias.
- Delivered actionable insights via interactive dashboards in Power BI, enhancing risk management effectiveness by 30%.

Sign Language Translator, Pillai College of Engineering, India | **Link**

- Constructed and trained a CNN model for real-time translation of Indian Sign Language, achieving over 95% accuracy.
- Created a proprietary dataset tailored to regional sign gestures, enhancing model generalization.
- Developed a seamless interface for two-way communication, supporting a more inclusive user experience.