



Kumari Archita

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EDUCATION

Manipal Institute of Technology

Bachelor of Technology in Cyber Physical Systems — CGPA - 7.68

Manipal, Karnataka

July 2023 – May 2027

Loyola High School

AISSECE — Percentage - 86%

Patna, Bihar

July 2020 – April 2022

EXPERIENCE

ImpactCraft - Data Analyst Intern

1st Dec. 2025 – 31st Dec. 2025

Remote

- Modeled 60K+ time-series datapoints across multiple real-world user behavior patterns, evaluating 6 statistical and forecasting models.
- Achieved $\approx 30\%$ improvement in trend explanation (R^2) and identified ARIMA as the top short-term predictor (lowest RMSE in most cases).
- Developed LLM evaluation and QA framework, cutting manual review workload by $\approx 50\%$.

Board Member – Management Head

Sept. 2024 – Oct. 2025

International Society of Automation (ISA), MIT Student Section

Manipal, Karnataka

- Coordinated and executed planning for 5+ major technical events with 100+ attendees.
- Conducted monthly alignment meetings between 6 cross-functional subsystems, resolving issues and ensuring consistent progress.

PROJECTS

Credit Card Fraud Detection using Unsupervised ML | python, scikit-learn

Nov 2025 – Dec 2025

- GitHub: github.com/archiie24/Credit-Card-Fraud-Detection
- Built an unsupervised fraud detection system on 284,000+ transactions (0.17% fraud), framing fraud as a rare-event anomaly detection problem.
- Performed exploratory data analysis and feature scaling, and trained Isolation Forest, Local Outlier Factor (LOF), and One-Class SVM, achieving approximately 80% recall using precision-recall-based evaluation.

Predictive Maintenance using Machine Learning | python, scikit-learn

May 2025 – June 2025

- GitHub: github.com/archiie24/Predictive-Maintenance-using-ML
- Developed a predictive maintenance model on 20,000+ sensor records across 10+ features, supported by exploratory analysis of sensor distributions, correlations, and failure rates.
- Engineered rolling and statistical features, and trained Logistic Regression and Random Forest models, achieving approximately 80% ROC-AUC for equipment failure prediction.

Loan Default Risk Analysis | Python, Pandas, Scikit-learn, Power BI, SQL, Excel

May 2024 – June 2024

- GitHub: github.com/archiie24/Loan-Risk-Analysis
- Performed exploratory data analysis and feature engineering on 350+ loan records, training Logistic Regression, Random Forest, and Gradient Boosting models with stratified cross-validation, achieving approximately 80% performance.
- Evaluated models using ROC-AUC, precision, recall, and F1-score with emphasis on recall for default detection, and built 6+ Power BI dashboards to analyze credit risk patterns and predictions.

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, HTML/CSS, MySQL

Developer Tools: Git, VS Code, Jupyter Notebook

Libraries & Frameworks: scikit-learn, pandas, NumPy, Matplotlib

Analytics & Visualization: Power BI, Microsoft Excel

CERTIFICATIONS

Google Data Analytics Professional Certificate

IBM Introduction to Artificial Intelligence