Dhanesh B. B.

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PROFESSIONAL SUMMARY

Data Science professional skilled in Python, SQL, and ML frameworks (XGBoost, LightGBM) with hands-on experience designing Python-based data workflows and predictive models that cut manual effort by 40% and accelerated reporting speed by 25%. Developed tools like InsightfulPy (Python), and improved client efficiency by 30% via ML-driven solutions. Certified Data Scientist with a Master's in Economics, leveraging advanced analytics to deliver actionable strategies for pricing optimization and risk mitigation.

WORK EXPERIENCE

Aditya Birla Fashion & Retail Ltd.   Bengaluru, India
Coordinator   (Apr 2022 - Mar 2023)
- Processed 100+ daily financial transactions with 99% accuracy, resolving discrepancies in sales reports by 15%.
- Streamlined cross-departmental workflows, contributing to a 10% improvement in monthly sales targets.

Rubixe™   Bangalore, India
Data Science Consultant Intern   (Sep 2024 - Mar 2025)
- Executed proof-of-concept (POC) projects using ML models, translating data science theory into actionable solutions (e.g., lead prioritization).
- Collaborated with cross-functional teams to resolve operational bottlenecks, earning recognition for 30% efficiency gains in client workflows.
- Enhanced client satisfaction by 85% through tailored machine learning solutions.

PROJECTS

InsightfulPy – Python EDA Toolkit | PyPI | Self-Driven Project   (Jan 2025)
- Developed a Python library with 25+ functions for automated EDA, outlier detection, and statistical summaries.
- Integrated TableOne and ResearchPy for grouped statistical summaries and hypothesis testing.

AutoCSV Profiler Suite | Self-Driven Project   (Feb 2025)
- Engineered a dependency-isolated CSV analysis toolkit using Python (Sweetviz, ydata-profiling) to resolve library conflicts, enabling parallel execution of 5+ EDA tools via virtual environments.
- Automated end-to-end data profiling workflows (delimiter detection → HTML reports) with batch scripting for 100+ column datasets.

Auto Price Prediction – Predictive Modeling   (Feb 2025)
- Forecasted vehicle prices using Lasso Regression (α=10) with R^2=0.917 and RMSE=1.987, leveraging PCA (95% variance) and IQR-based outlier handling.
- Identified $6K–$7.3K price premiums for luxury brands (BMW, Mercedes), guiding inventory pricing strategies.

Home Loan Default Prediction   (Feb 2025)
- Trained XGBoost model (83% accuracy) on 50M+ rows, reducing false positives by 22% and eliminating 1,200+ hours of manual review.
- Engineered 25+ features and optimized memory usage by 70–80%, enabling efficient processing of bureau_balance data (27M rows).

Sales Effectiveness & Lead Qualification - FicZon Inc| Rubixe   (Mar 2025)
- Built an XGBoost classifier to automate lead scoring, prioritizing high-potential leads. Reduced manual review time by 30% and overfitting by 6.89% using GridSearchCV While tuning.
- Identified critical trends: 20.4% lead inflow on Mondays and 46% peak conversions in November, enabling targeted campaign scheduling.

Employee Performance Analysis - INX Future Inc | IABAC   (Apr 2025)
- Analyzed 1,200+ records via XGBoost (92.5% accuracy), identifying key drivers: environment satisfaction (SHAP=0.494), salary hikes, and promotion delays.
- Proposed solutions: quarterly surveys, biennial promotions, workload redistribution; cutting Sales/Finance attrition by 10% and aligned rewards with performance.
- Deployed predictive hiring model, boosting hiring accuracy by 20% via tenure/satisfaction-based prioritization.

EDUCATION

Bachelor of Arts (Economics, History, Political Science) –
Bangalore University (Aug 2021)
Relevant Coursework: Economic Planning, International Trade & Policy, Data-Driven Decision Making

Master of Arts in Economics –
Bangalore University (Nov 2023)
Relevant Coursework: Econometrics, Financial Modeling, Research Methodology

TECHNICAL SKILLS

Programming & Tools:
Python (Pandas, NumPy, Scikit-learn) | SQL, MySQL, PostgreSQL, MongoDB| Git/GitHub | Hadoop, HDFS, PySpark, Spark SQL, Kafka | AWS (SageMaker, S3), Azure ML | Tableau, Power BI, Excel, Matplotlib, Seaborn

Machine Learning:
Regression (Linear/Logistic), Classification (KNN, SVM), Clustering (K-Means), Decision Trees, Random Forest, XGBoost, LightGBM, PCA | Flask Deployment | Feature Engineering, Time Series (ARIMA)

Analytics & Methodologies:
Hypothesis Testing (p-value, t-test, ANOVA) | EDA, Statistical Analysis (CLT, Skewness)

CERTIFICATIONS

- Certified Data Scientist Certification Training | Datamites (Jun 2024)
- Data Science Foundation | IABAC® (Mar 2025)
- Certified Data Scientist (Gold) | NASSCOM (Apr 2025)
- Certified Data Scientist (Grade A) | IABAC® (Apr 2025)
- The Data Science Course | 365 Careers (Apr 2025)
- Kaggle Certifications: Advanced SQL, Machine Learning, Python, Data Cleaning, Feature Engineering, Time Series (Apr 2025)

SOFT SKILLS

Cross-functional Collaboration | Client Communication

Languages: English (Intermediate), Hindi (Fluent), Kannada (Fluent)