

# GIRISH K S

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## PROFILE SUMMARY

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Data-driven engineer with strong expertise in statistics, feature engineering, and end-to-end machine learning pipelines. Proven experience building recommender systems and fraud detection models on large real-world datasets, with a focus on scalable, reliable, and business-critical ML solutions.

## TECHNICAL SKILLS

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Python, SQL | scikit-learn, XGBoost, SVD, SMOTE | Pandas, NumPy | Feature Engineering, Model Evaluation | Hypothesis Testing, A/B Testing | Power BI, Matplotlib, Seaborn | Git, GitHub Actions | MySQL, PostgreSQL

## PROJECT EXPERIENCE

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- Amazon Product Recommendation System  
Tech: Python, Pandas, NumPy, scikit-learn, SVD, Streamlit
  - Built collaborative filtering recommender using matrix factorization (SVD) on 500K+ user–product interactions
  - Engineered sparse user–item interaction matrices and optimized dimensionality reduction
  - Achieved Precision@10 = 0.31 and Recall@10 = 0.42
  - Deployed real-time Top-N recommendation system using Streamlit
- Fraud Detection System  
Tech: Python, Random Forest, Logistic Regression, SMOTE, Pipelines
  - Built complete ML pipeline on 130K+ financial transactions for fraud classification
  - Handled extreme class imbalance using SMOTE (fraud < 1.5%)
  - Achieved Fraud Recall = 94% with balanced precision
  - Delivered production-ready serialized prediction pipelines
- Bharat Herald Media Performance Analysis  
Tech: SQL (MySQL), Data Modelling, Complex Joins, Window Functions, Aggregations
  - Analyzed 300k+ rows of multi-year sales and revenue data
  - Solved 10+ business queries using joins, subqueries, and window functions
  - Identified low-engagement, high-readiness cities for digital expansion strategy

## EDUCATION

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Bachelor of Engineering — The Oxford College of Engineering, Bengaluru

## CERTIFICATIONS

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- Google Data Analytics — Google (Coursera)
- Artificial Intelligence Fundamentals — IBM
- Machine Learning and Data Science — GFG (Nation Skillup)
- Python — GFG (Nation Skillup)
- SQL — GFG (Nation Skillup)