

ABI BENIYAL R

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PROFESSIONAL SUMMARY

Machine Learning Engineer specializing in end-to-end ML pipelines, from feature engineering to cloud deployment. Proven track record of bridging technical development with business objectives to deliver measurable outcomes within cross-functional, agile environments.

Key Skills

Languages: Python, SQL

Tools and Environments: Jupyter Notebook, VS Code, AWS, Streamlit, Git

Machine Learning and Libraries: Pandas, NumPy, Scikit-learn, XGBoost, Matplotlib

Professional Experience

Tech Mahindra, Software Engineer - Hyderabad - Full Time

Mar 2024 – Nov 2025

- Resolved data inconsistencies for 200+ applications by engineering SQL/Cassandra fixes, collaborating with teams to increase data availability from 60% to 90% for reliable enterprise-level analytics.
- Minimized service interruptions by conducting AWS Root Cause Analysis (RCA) for P2/P3 incidents, communicating technical resolutions to stakeholders to secure 99.9% uptime and earning three formal client excellence commendations.
- Standardized production stability through systematic cross-functional debugging and database optimization, reducing pipeline failures by 75% while mentoring peers on SLA compliance and robust deployment practices.

Projects

Credit Risk Modelling - Financial Risk Management (FRM)

[Project-Link](#)

- Automated manual credit screenings by building a scikit-learn pipeline, achieving 93% accuracy by engineering features that align complex default probabilities with industry-standard credit approval norms.
- Simplified complex model interpretability by developing a Streamlit dashboard, translating Probability of Default scores into intuitive risk ratings to enhance user transparency and decision-making.
- Rectified data consistency challenges by standardizing pandas pre-processing workflows, ensuring 100% data integrity and compliance with financial transparency standards for open-source auditability.

Insurance Premium Prediction - Health Care

[Project-Link](#)

- Mitigated pricing inaccuracies by deploying an XGBoost regression model, reducing prediction error by 40% through rigorous feature architecting to align premium costs with shifting healthcare demographic data.
- Streamlined pricing operations by architecting an automated estimation tool in VS Code, presenting data-driven insights to stakeholders to reduce manual overrides by 60% and improve decision-making efficiency.
- Sustained long-term model reliability by implementing an MLOps retraining loop to manage data drift, ensuring 99% alignment with business targets by synchronizing technical performance with market fluctuations.

Certification

Master Machine Learning for Data Science & AI - Codebasics

AWS Certified Cloud Practitioner - AWS

Apache Cassandra 3 Developer Associate Certification - DataStax

Education

KGISL institute of technology

Sep 2018 – May 2022

Bachelor of Engineering - Computer Science

Coimbatore