JOY HARRISON

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SUMMARY

Aspiring Data Scientist and Data Analyst with hands-on experience in machine learning, data analysis, and business analytics. Skilled in Python and SQL, with practical experience in data cleaning, exploratory data analysis, feature engineering, model development, and data visualization to drive actionable insights.

WORK EXPERIENCE

Machine Learning / Data Science Intern, Externs club Pvt Ltd   Mar 2023 – May 2023

- Optimized data pipelines and preprocessing workflows, enabling faster analytics cycles and supporting ~30% quicker data-driven decision-making across teams
- Delivered actionable insights through EDA that informed product and operational strategies, contributing to ~18% improvement in model-driven outcomes
- Developed and fine-tuned machine learning models that enhanced prediction reliability, directly supporting business planning and improving operational efficiency by ~20%

Machine Learning Intern, Prodigy InfoTech   Apr 2024 – May 2024

- Built a customer segmentation model using K-Means, enabling targeted marketing strategies and improving engagement by ~15%
- Developed a hand gesture recognition system with CNNs, achieving ~92% accuracy and demonstrating real-time interactive capabilities
- Applied advanced data preprocessing and model evaluation techniques, boosting model performance and reliability for actionable insights

Data Analysis Intern, Unified Mentor Private Limited   Jul 2024 –Aug 2024

- Conducted in-depth market analysis of the wood engraving industry, uncovering trends that informed strategic opportunities, driving growth potential in targeted markets
- Developed interactive Power BI dashboards, enabling leadership to monitor KPIs and make data-driven decisions ~30% faster
- Delivered actionable insights that guided product positioning and marketing strategies, contributing to ~25% improvement in market reach and campaign effectiveness

Data Analysis Intern, Miso   Sep 2024 – Dec 2024

- Analysed market data to identify customer trends and preferences, informing strategic product decisions that increased potential sales by ~20%
- Cleaned, transformed, and visualized datasets, enabling faster insight generation for marketing and product teams
- Prepared actionable reports and recommendations that guided business growth strategies, contributing to ~25% improvement in targeted campaign effectiveness

EDUCATION

Master's in Business Analytics and AI(2025-2027)
Ontario Tech University
Bachelor of Computer Applications(2022-2025)
Amity University

PROJECTS

Bank Churn Prediction & Retention System
- Built ML pipeline to predict customer churn using classification and clustering
- Performed feature engineering, model evaluation, and hyperparameter tuning & deployed real-time app using Streamlit

AI HR Assistant
- Developed an offline AI-powered(RAG)HR assistant using Streamlit, FAISS, and transformer-based embeddings for policy Q&A
- Implemented PDF ingestion, vector search, and local LLM-based answer generation for secure document analysis

Car Price Prediction Model

- Regression model for vehicle price with EDA, and feature engineering, multiple models and optimized performance