Samin Intisar

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Skills

Programming Languages: Python, R, Java, JavaScript, SQL (Postgres), HTML/CSS, DAX

Libraries and Frameworks: Pandas, Matplotlib, NumPy, Seaborn, Scikit-learn, TensorFlow, PyTorch, Transformers, HuggingFace, XGBoost, Scipy, React, NodeJS, Git, Databricks

Analytical Tools: Power BI, Tableau, Excel

Projects & Portfolio

Disaster Tweet Classification with DistilBERT | Python | PyTorch | NLP   GitHub Repo

- Built a hybrid NLP model combining DistilBERT transformer embeddings with traditional text features for disaster tweet classification.
- Engineered features like hashtags, sentiment scores (VADER), and location data to improve model interpretability.
- Performed extensive EDA and visualized keyword trends, location patterns, and model performance via confusion matrices and word clouds.
- Achieved over 84% F1-score by fine-tuning DistilBERT and optimizing inference speed and model regularization.

Breast Cancer Diagnosis with Random Forest & SHAP | Python | Scikit-learn   GitHub Repo

- Built and fine-tuned classification models (Random Forest, Decision Trees, SVM, etc.).
- Performed EDA, feature scaling, and hyperparameter tuning with GridSearchCV; applied RandomForestClassifier with SHAP for model interpretability.
- Identified top predictive features and visualized model insights to support clinical relevance.
- Achieved an F1-score of 0.96 in detecting malignant tumors.

Employee Attrition Prediction with Lasso Regression | R | MySQL   GitHub Repo

- Performed EDA on HR data from 4,653 employees to uncover trends and prepare the dataset for modeling.
- Conducted feature selection and built a Lasso regression model with cross-validation, identifying salary tier, benching status, and experience as key attrition factors while optimizing predictive performance.
- Developed visualizations to highlight attrition trends by age, gender, and salary tier, providing actionable insights.
- Achieved 73% accuracy with a high AUC-ROC score in predicting employee attrition.

Work Experience

Spintech Associates, Sales Analyst Intern   May 2023 - August 2023

- Analyzed daily sales data using Excel to identify top-performing products, contributing to an increase in revenue.
- Supported the sales team with data-driven recommendations to optimize product placement and promotions.
- Created inventory reports, reducing stock discrepancies by 15%.

Education

University of British Columbia, Bachelor of Science in Statistics (**GPA: 3.3**)   September 2021 - April 2026

Coursework: Data Analytics, Statistical Inference, Finding Relationships in Data, Software Construction, Statistical Modeling for Data Science, Sample Surveys, Data Structures, Computer Programming

Awards & Volunteering

BC Hacks 4.0, Most Diverse Hack Award   November 2022

Developed an Android app (SpeedTrap) designed to improve road safety for minors.

AMS Food Bank Volunteer   May 2025 - Present

Assisted with client service and inventory restocking to support daily food distribution operations.