VISHAL

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LinkedIn Profile

Github Profile

EDUCATION

•Rayat Bahra University Mohali, Punjab

Btech - Computer Science And Engineering

2021-2025 CGPA: 7.86

•Professional Certificates

IBM Data Science Professional Certificate (IBM)

Machine Learning and Deep Learning – Fundamentals and Applications (NPTEL)

Full Stack Development Program (Excellence Education)

Full Stack Web Development (MCP Technology)

PROJECTS

•Resume Categorization

Built a resume categorization system to classify resumes into job profiles..

- Cleaned and preprocessed 1,000+ resumes by normalizing text and removing special characters. Transformed resumes into numerical features using TF-IDF vectorization, resulting in a feature matrix of size 1,000 x 10,000. Encoded 25 job categories with LabelEncoder for model training.
- Built a K-Nearest Neighbors (KNN) classifier using the One-vs-Rest strategy for multi-class classification, achieving an accuracy score of 85%...
- Visualized job profile distributions with count plots and pie charts, representing 25 distinct job profiles.
- Developed a prediction function to categorize resumes, successfully classifying new resume samples with high accuracy.

•Spam Comment Detection

Developed a spam detection system using TF-IDF vectorization and Logistic Regression, achieving 92% accuracy in classifying comments

- Preprocessed 10,000+ comments by handling missing values and extracting features from dates.
- Visualized data distribution and generated a correlation heatmap.
- Vectorized text using TF-IDF with 1,000 features.
- Trained a Logistic Regression model and achieved 92% accuracy in spam detection.

•Credit Card Fraud Detection

Developed a machine learning model to detect fraudulent credit card transactions from a highly imbalanced dataset..

- Preprocessed data by cleaning and standardizing features, and addressed class imbalance..
- Analyzed fraud rate (0.17%) and dataset characteristics through exploratory data analysis.
- Applied Logistic Regression, Decision Tree, and Random Forest classifiers, achieving robust performance with Random Forest, and evaluated using accuracy, precision, recall, and F1-score.

•Student Management System

Developed a backend Student Management System using Python and SQL for efficient student data management and retrieval...

- Designed and developed a scalable backend system for managing student information using Python and MySQL..
- Created a robust database solution with efficient data retrieval and manipulation techniques to optimize system
 performance.

TECHNICAL SKILLS AND INTERESTS

Languages: Python

Frameworks/Libraries: Pandas, Scikit-learn, Seaborn, Matplotlib, NumPv

Cloud/Databases: MongoDB,SQL

Data Analysis and Engineering's: Data Analysis, Data Cleaning, Feature Engineering, Model Evaluation, Machine

Learning Algorithms

Soft Skills: Problem Solving, Effective Communication, Leadership, Agile Learner.