PIYUSH YADAV

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SUMMARY

Aspiring Data Scientist and Machine Learning Engineer skilled in Python, Data Analysis, and ML model development. Experienced in transforming raw data into actionable insights through preprocessing, feature engineering, and model optimization. Completed multiple ML and NLP-based projects including Resume Screening, Loan Approval Prediction, and Heart Stroke Detection. Passionate about building intelligent systems and solving real-world problems using data-driven approaches.

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript
Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, NLTK
Techniques: Classification, Regression, NLP, Feature Engineering, Data Cleaning, Model Evaluation
Tools: Excel, Jupyter Notebook, Streamlit, Git, GitHub
Web Technologies: HTML, CSS, JavaScript, Django
Other: EDA, Confusion Matrix, Model Optimization, Deployment (Streamlit)

PROJECTS

Resume Screening Model — NLP + ML *Tech Stack: Python, Scikit-learn, NLP, Streamlit*
Project Link: https://piyush-web-pixel-resume-screening-model-app-urakjf.streamlit.app/

- Built an automated resume screening system to classify resumes based on job relevance.
- Applied NLP techniques: tokenization, TF-IDF, keyword extraction, cosine similarity ranking.
- Developed a Streamlit app to upload resumes and display ranking scores.
- Improved accuracy with feature engineering and optimized preprocessing.

Loan Approval Prediction Model — ML *Tech Stack: Python, Pandas, Scikit-learn*
Project Link: https://loan-classification-ml-project-1.onrender.com/

- Built a machine learning model to predict loan approval using applicant data.
- Performed EDA, handled missing values, and applied one-hot encoding.
- Compared Logistic Regression, SVM, and Random Forest.
- Selected best-performing model using accuracy and ROC-AUC.

Heart Stroke Prediction — ML *Tech Stack: Python, Pandas, Scikit-learn, Matplotlib*
Project Link: https://piyush-web-pixel-heart-stroke-prediction-model-app-mzygtn.streamlit.app/

- Developed a stroke prediction model using BMI, glucose, and other health metrics.
- Performed preprocessing, outlier detection, and feature engineering.
- Visualized patterns using Matplotlib and Seaborn.
- Achieved high accuracy with Random Forest and Logistic Regression.

EDUCATION

B.Tech in Computer Science (AIML)
Jawaharlal Institute of Technology, Borawan 2023 – 2027

CERTIFICATIONS

Python Programming — Infosys Springboard
Data Visualization with Python — Infosys Springboard

INTERESTS

Machine Learning, NLP, Data Analytics, Model Deployment, AI-Based Automation