Shahid Ul Islam

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PROJECT EXPERIENCE

Indira Gandhi National Open University
Criminal Records Management System

Srinagar, Jammu and Kashmir
Aug 2022 - Dec 2022

- Developed a centralized web-based application for managing and analyzing criminal records. The system is designed to streamline operations for law enforcement agencies such as the police, NCRB, and CBI, enabling them to securely manage, update, and retrieve criminal data efficiently.

Technologies Used: HTML, CSS, PHP, MySQL.
Github : https://github.com/Khanz9664/criminal-records-system

Islamic University of Science & Technology
Medicine Review Categorization

Awantipora, Pulwama, Jammu and Kashmir
Sep 2024 – Dec 2024

- Designed and developed a web-based application to classify medicine reviews into predefined categories, assisting healthcare professionals and pharmaceutical companies in understanding patient feedback.

- Built the backend logic with a trained classification model using TF-IDF vectorization for text data and label encoding for categorical inputs.
- Integrated the model into a user-friendly Streamlit interface for seamless interaction and predictions.
- Preprocessed data to optimize model accuracy and combined multi-feature inputs into a sparse matrix for efficient processing.
- Focused on scalability, enabling future enhancements like multi-language support and confidence score visualization.

Technologies Used: Python, Streamlit, Scikit-learn, Joblib, TF-IDF, Sparse Matrices
GitHub: https://github.com/Khanz9664/Medicine-Review-Categorization

Islamic University of Science & Technology
Exploratory Analysis of the MovieLens dataset

Awantipora, Pulwama, Jammu and Kashmir
Oct 2024 – Nov 2024

- Conducted an in-depth exploratory data analysis of the MovieLens dataset to uncover trends in user ratings and movie metadata. Leveraged Python libraries such as NumPy, Pandas, Matplotlib, and Seaborn to clean, process, and visualize data.
- Key insights included identifying average rating trends over time, analyzing genre preferences, exploring rating distributions, and highlighting the most rated movies. Developed compelling visualizations to support findings, showcasing strong analytical and data storytelling skills.

Technologies Used: Python, NumPy, Pandas, Matplotlib, Seaborn.
GitHub: https://github.com/Khanz9664/exploratory-data-analysis

Islamic University of Science & Technology
House Price Prediction Using the Ames Housing Dataset

Awantipora, Pulwama, Jammu and Kashmir
Nov 2024 – Dec 2024

- Developed a regression model to predict house prices using the Ames Housing dataset from Kaggle. The project involved data exploration, cleaning, feature engineering, and handling missing values. Built and evaluated multiple supervised learning models, including Linear Regression and Random Forest, to identify the most accurate predictor.
- Optimized model parameters to improve performance and documented the process in a well-structured Jupyter Notebook. Visualizations were created to support insights and findings, showcasing trends and key factors influencing house prices.

Technologies Used: Python, Pandas, NumPy, Scikit-learn, Data Cleaning, Data Visualization, Regression Models, Machine Learning.
GitHub: https://github.com/Khanz9664/exploratory-data-analysis

Islamic University of Science & Technology
Breast Cancer Prediction Using Machine Learning

Awantipora, Pulwama, Jammu and Kashmir
Dec 2024 – Jan 2024

- Developed and implemented a predictive model to classify tumors as malignant or benign, aiding early detection and diagnosis of breast cancer.
- Conducted extensive preprocessing, including handling missing values, feature scaling, and feature selection, to improve model performance.
- Trained and evaluated classification algorithm, Random Forest Classifier for the best performance.
- Focused on explainability by generating plots to help users understand feature importance in predictions.

Technologies Used: Python, NumPy, Pandas, Matplotlib, Plotly, Sklearn, Joblib, Seaborn.
GitHub: https://github.com/Khanz9664/Breast-Cancer-Prediction

EDUCATION

Islamic University Of Science And Technology.
Master of Computer Applications (MCA)

Awantipora, Pulwama, Jammu and Kashmir
August 2023 – Present

Indira Gandhi National Open University.
Bachelor Of Computer Applications (BCA)

Srinagar, Jammu and Kashmir
January 2020 – June 2023

Govt. Higher Secondary School
Secondary School Education, Mathematics and Computer Science.

Kulgam, Jammu and Kashmir
January 2015 – March 2017

LICENSES AND CERTIFICATIONS

- Introduction To Generative AI (Google)
- Introduction To Large Language Models (Google)
- Introduction To Responsible AI (Google)
- Fundamental Course of Data Architecture 2.0. (Udemy)
- Machine Learning Certification Course for Beginners. (Analytics Vidya)
- Professional Machine Learning Engineer Study Guide (Google)
- Advanced Excel Course. (ELearnMarkets)
- CSS, Bootstrap and Javascript and Python Stack Course. (Udemy)

SKILLS & INTERESTS

Programming Languages
- Python (Expertise in Pandas, NumPy, Matplotlib, Scikit-learn)
- C, C++ (DSA)
- SQL (Database Design and Query Optimization)
- HTML, CSS, JS

Data Science & Machine Learning

- Machine Learning Algorithms (Linear Regression, Decision Trees, Random Forest,SVM,….)
- Data Visualization (Matplotlib, Seaborn)
- Data Analysis and Preprocessing

Artificial Intelligence & Natural Language Processing

- Knowledge in AI and NLP techniques
- Sentiment Analysis using TextBlob

Database Management

- Database Design and Management
- Expertise in Relational Database Systems

Technical Tools

- Jupyter Notebooks
- Git and GitHub for Version Control