Ashika Panchal

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EDUCATION

Royal Institute Of Technology and Advanced Studies — Ratlam, India
Bachelor of Computer Application; Ongoing — *August 2023 – May 2026*

Bhartiya Vidhyapeeth Higher Secondary School — Nagda, India
12th; GPA: (8.0/10.0) — *June 2022 – March 2023*

PROJECT

COVID-19 Data Analysis and Visualization [Link]
Pandas, Matplotlib, Seaborn — *November 2024*

- Analyzed and visualized COVID-19 data trends and insights.
- Cleaned and preprocessed large datasets. Handled missing values and standardized date formats.
- Used Line charts, bar graphs, and heatmaps for trend analysis. Provided meaningful insights into COVID-19 patterns.

Diabetes Disease Prediction App [Link]
NumPy, Pandas, Scikit-learn — *December 2024*

- Uses machine learning to analyze patient health metrics and determine the likelihood of diabetes.
- Allows users to input health parameters and get real-time predictions with probability scores.

Fake News Prediction using Logistic Regression [Link]
NumPy, Pandas, Scikit-learn — *January 2025*

- This project aims to classify news articles as real or fake using Logistic Regression, helping to combat misinformation and improve media credibility.
- The model processes textual data by removing stopwords, applying stemming, and converting text into numerical features using TF-IDF Vectorization before training a Logistic Regression classifier to make predictions.

Calories Burnt Prediction [Link]
NumPy, Pandas, Scikit-learn, Streamlit — *February 2025*

- Predicts calories burnt during exercise based on factors like gender, age, height, weight, duration, heart rate, and temperature using XGBoost Regressor.
- The dataset is preprocessed by encoding categorical variables, dropping irrelevant columns, and analyzing distributions. An XGBoost model is trained, and a Streamlit-based UI enables real-time calorie predictions based on user input.

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Operating System
- Computer Application
- Database Management System
- Computer Networking
- Machine Learning

PROGRAMMING SKILLS

- **Languages**: Python, C++, HTML/CSS
- **Developer Tools**: VS code, Jupyter NoteBook
- **Technologies/Frameworks**: Git/GitHub, Bootstrap

INTERESTS

- Algorithmic Problem Solving • AI Research • Data Science Trends • Exploring and learning new skills