Sudipta Sundar Pal

sudiptasundarpal@gmail.com 8778336321 Chennai Sudipta Sundar Pal Sudipta2307
Sudipta Sundar Pal sp8451 Sudipta23

PROFILE

I am Sudipta Sundar Pal, deeply passionate about AI and ML, pursuing BTech in Computer Science at SRM University. Committed to mastering the intricacies of artificial intelligence and machine learning, I actively seek opportunities for continuous learning and skill enhancement. Fueled by my enthusiasm for innovation, I aspire to develop groundbreaking solutions that drive positive change and transform industries.

PROFESSIONAL EXPERIENCE

Internship Studio 03/2024 – 04/2024
Machine Learning Internship
Project-Youtube adview Prediction

AWS Academy 05/2023 – 07/2023
AI ML Virtual Internship

IEEE SRM Student Club 05/2023
Corporate Member
Volunteered in various events or hackathons

EDUCATION

SRM Institute of Science and Technology 06/2022 – 05/2026
Btech in CSE with specialization in Artificial intelligence and Machine learning Chennai, India

Modern Senior Secondary School 2020
Class 10 93.6% Chennai, India

Modern Senior Secondary School 2022
Class 12 93.2% Chennai, India

SKILLS

Programming Languages
C, C++, Python, Java

Web development
HTML, CSS, JavaScript

Frameworks and Libraries
Numpy, Pandas, Matplotlib, Scikit-learn, Seaborn, OpenCV

Machine Learning
Linear regression, Logistic regression, NLP, CNN, Computer Vision

PROJECTS

Youtube Adview Prediction
The YouTube ad view prediction project utilizes a variety of machine learning algorithms, including linear regression, support vector regressor, decision tree regressor, and artificial neural networks (ANN). These models are trained on historical data containing features such as video duration, upload time, and viewer engagement metrics to predict the number of ad views for YouTube advertisements. The trained models are then saved for deployment, enabling accurate predictions of ad views.

Diabetes Prediction
The diabetes prediction system utilizes logistic regression to predict the likelihood of diabetes based on user-input data. Implemented with Flask, a user-friendly HTML form collects information including pregnancies, glucose levels, blood pressure, skin thickness, insulin levels, BMI, age, and diabetes pedigree function. Upon submission, the system processes the input data through the logistic regression model to provide a predictive assessment of the user's risk for diabetes.

Forest fire Testing
Utilizing the Algerian Forest Fires Dataset, we developed a forest fire prediction system with Flask and an HTML form. The dataset comprises 244 instances from Bejaia and Sidi Bel-abbes regions during June to September 2012, classified into fire and non-fire classes. Employing extensive Exploratory Data Analysis (EDA) and feature engineering, we extracted insights and engineered relevant features such as FFMC indices. The Flask application allows users to input Relative Humidity (RH), Wind Speed (Ws), Rain, and FFMC values, providing predictive assessments of forest fire likelihood based on the input parameters.

CERTIFICATES

- Programming in Java(NPTEL)
- Machine Learning Foundation(AWS Academy)
- Computer Architecture(NPTEL)
- Python for Data Science(Coursera)
- Cloud Foundations(AWS Academy)

AWARDS

First Place, SRM Institue of Science and Technology 2022
Best Semiconductor project in TechKnow 2022