Dipankar Debnath

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Github : https://github.com/Codewtithdips Leetcode : https://leetcode.com/u/debnathdpankar27/

Technical Skills

Programming Languages: HTML, CSS, MySQL, Python, Java , Javascript

Computer Science Fundamentals: Computer Networks, Operating Systems, Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems

Data Science & Machine Learning

- **Techniques**: Exploratory Data Analysis (EDA), Data Cleaning, Model Building, Model Tuning and Optimization, Model Evaluation Metrics, Hyperparameter Tuning, Fine-Tuning, Model Deployment
- **Algorithms**: Supervised & Unsupervised Learning, Regression, Classification, Clustering
- **Feature Engineering**: Feature Selection, Dimensionality Reduction (PCA, LDA)

Deep Learning & Neural Networks : Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)

Frameworks & Libraries: Pandas, NumPy, Flask, Matplotlib, Seaborn, Scikit-learn, Django, PyTorch, TensorFlow

Version Control & DevOps : Git, GitHub, CI/CD, GitHub Actions

Soft Skills: Teamwork, Communication, Time Management, Team Collaboration, Problem-solving, Debugging, Analytical Skills

Education

University of Engineering and Management, BTECH in Computer Science

- CGPA: 7.6 till 6th Semester
- Coursework: Data Structures and algorithms , DBMS , Computer Network , OOP , Compiler Design , Theory of Computation and Many other Core subjects for Computer science Engineering.

Work Experience

Orinson Technologies

Machine Learning Intern December 2024 – January 2025

Skills Used: Python, Pandas, NumPy, Scikit-Learn, Machine Learning, Data Cleaning, Feature Engineering, Model Evaluation, Data Visualization

- Implemented **Sentiment Analysis on Movie Reviews** , classifying reviews as **positive or negative** using **natural language processing (NLP) techniques**. Applied **data preprocessing, feature engineering**, and trained models using **ML algorithms** for sentiment classification.
- Built a **Linear Regression Model** to predict numerical values from a single feature. Trained and evaluated the model using **scikit-learn**, visualized the **regression line on a scatter plot**, and assessed model performance with key metrics.

Projects

1. **Customer Churn Prediction** *[GITHUB LINK]*
   Technologies: Python , Flask , Matplotlib , Seaborn , Scikitlearn , HTML , CSS , Github
   - Analyzed a telecom customer dataset to predict **customer churn** using **supervised machine learning** techniques.
   - Conducted comprehensive **data cleaning**, **feature engineering**, and **exploratory data analysis (EDA)** to ensure high-quality input for model training.
   - Implemented **train-test split** and applied **Decision Tree** and **Random Forest** algorithms to classify customer churn.
   - Addressed **class imbalance** by applying **SMOTE (Synthetic Minority Over-sampling Technique)** for data resampling.

- Achieved a **model accuracy of 93.49%** with **Random Forest** and deployed the final model using **Flask** for seamless integration and real-time predictions.

2. **Social Media App** *[GITHUB LINK]*

   Technologies: **Django, HTML, CSS, Django REST Framework, Bootstrap**

   - Developed a social media platform with features such as **user authentication**, **profile customization**, and a **dynamic feed**.
   - Implemented secure **login and registration** functionality using **Django ORM** for database management.
   - Designed a **responsive UI** with **HTML, CSS**, and **Bootstrap**, ensuring cross-device compatibility.

Achievements & Certifications

- IBM Data Analyst Specialization
- IBM Data Science Specialization
- Machine Learning with Python
- Databases and SQL for Data Science (with Honors)
- Generative AI: Elevate Your Data Science Career
- Achieve 30 days coding challenge Badge in Leetcode
- Achieve 50 days Attendance of Coding Badge in Leetcode

Languages

- English: Full Working Proficiency
- Hindi: Limited Working Proficiency
- Bengali: Native