SANDEEP MISHRA

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Portfolio

Profile

Passionate about the Data Science and Analytics domain, I am seeking a role where I can contribute my skills and continue to enhance further.

Professional Experience

2023/03 – present
New Delhi, India

Software Engineer
Costacloud
Working on an AI drone-based project, I worked Linux, ROS, Python, SLAM, and the on-board processing of drone. Additionally, i learnt Power BI, exploratory data analysis (EDA), and visualization tools like Matplotlib & Seaborn.

2023/09 – 2023/10
Remote, India

Data Science
Bharat Intern
During my internship, I explored both Machine Learning and Deep Learning based projects , where I worked on CNN (MNIST), LSTM (Time Series Analysis), and Machine Learning models.

Education

2019/07 – 2023/07
Faridabad, India

Electronics & Communications Engineering
JC Bose University of Science and Technology (YMCA)

2017/04 – 2018/03
NEW DELHI, India

Intermediate 12th
Balvantray Mehta Vidya Bhawan A.S.M.A

Skills

- Python
- Pandas
- Matplotlib/Seaborn
- Power BI / Tableau
- SQL
- Linux
- Elastic Search (Kibana)
- Microsoft Office

Awards

2022/05/26

Tech Preksha Hackathon
Geeks_for_Geeks
Led a winning team at an inter-college hackathon, securing a cash prize for our innovative proposal of a smart wheelchair model tailored for COPD patients.

Certificates

- Python Begineer to Advance
- Data Visualization
- AWS Certified Solutions Architect
- Oops in Python

Publications

Voice controlled Smart Wheelchair
ICRIDH-2023

Projects

Titantic Classification
Problem Statement
Make a system which tells whether the person will be save from sinking. What factors were most likely lead to success-socio-economic status, age, gender and more.
Solutions
1) I conducted exploratory data analysis (EDA) on the Titanic dataset, analyzing each column's relationship with the 'Survived' column.
2) I converted categorical data into numeric using label encoding and filtered columns (Age, Fare, Pclass, Sex) based on my observations.
3) I then applied six different machine learning models: Logistic Regression, Decision Tree, K-Nearest Neighbors (KNN), Naive Bayes, SVM and Random Forest.
4) After thorough evaluation, I achieved the highest accuracy of 81% through decision tree at 5th depth.
5) This comprehensive approach allowed me to efficiently preprocess the data, select relevant features, and compare the performance of various classifiers, ultimately leading to a successful Titanic classification model.

Number Recognition
Problem Statement
Handwritten digit recognition system not only detects scanned images of handwritten digits. Handwritten digit recognition using MNIST dataset is a major project made with the help of Neural Network. It basically detects the scanned images of handwritten digits.
Solutions
1) In this project, I used TensorFlow and imported the test and train datasets of MNIST.
2) I then applied normalization to the data. After that, I augmented the dataset by creating multiple images.
3) Next, I built a Convolutional Neural Network (CNN) with three layers, using an input size of 28x28.
4) During training, I modified the learning rate scheduler, with 15 epochs and a batch size of 128.
5) I achieved an impressive training accuracy of 98.77%.
6) I saved the model's predictions in a submission file.
7) Finally, I visualized my predictions to complete the project.

MOOC Courses

Cloud Computing
NPTEL

Internet Of Things
NPTEL

Soft Skils
NPTEL

Online Privacy
NPTEL

Declaration

I hereby declare that all the information mentioned above is true and correct to the best of my knowledge.