KALYANI KATUKAM

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SUMMARY

To succeed in an environment of growth and excellence and earn a job which provides me job satisfaction and self development and help me achieve personal as well as organization goals

TECHNICAL SKILLS

Programming Languages: Python || Basics in R Programming

Data Management: Data Collection || Data Collection Systems || Data Systems

Tools: Jupyter Notebook || Google Colab || Spyder || PyCharm || Visual Studio Code || MySQL Workbench || Postman API

Libraries: Pandas || Numpy || Seaborn || Matplotlib || Scikit-Leam || Scipy || NLTK || Spacy || Tensorflow || Keras || Pysparkll PyTorch || Flask || Joblib || OpenCV || BeautifulSoup || YOLO || Gensim || GTTS || LangDetect || WordCloud || MediaPipe || Streamlit

Data Visualization

Machine Learning(ML): Linear Regression || Logistic Regression || Gradient Descent || Decision Tree || Random-Forest || SVM || Naive-Bayes || KNN || XGBoost || AdaBoost || Polynomial Regression || Lasso & Ridge Regression || AUC & ROC || K-Means Clustering || Cross Validation || Hyper-parameter Optimization

Deep Learning(DL): ANN || CNN || RNN || LSTM || Optimization Techniques

Natural Language Processing(NLP): Word Embedding || TF-IDF || Word2Vec || Bags of Words || Tokenization || Stemming || Lemmatization || Text Summarization || Web Scraping

Key Skills: Data Cleaning || Data Visualization || Predictive Analysis || Statistical Modelling || Data Analytics || Data Preprocessing || Clustering and Classification || Models Deployment || Parallel & Concurrent Execution || Azure ML || Databases(MySQL) || Artificial lntelligence(AI) || Computer Vision || MultiVariate Analysis || Pytesseract || DataBricks || GAN || CLIP Architecture

PROJECTS

1. Number Plate Detection Project

Number Plate Detection Project

- Description: Developed an automated system for detecting and recognizing vehicle number plates using OpenCV and Tesseract OCR.
- Technologies: Python, OpenCV, Tesseract OCR
- Key Features: Image preprocessing, contour detection, cropping and masking, OCR
- Achievements: Successfully detected and read number plates with high accuracy. Enhanced OCR results through effective preprocessing techniques.

2. Bank Loan Default Risk Analysis

- Description: Developed a predictive model to assess the risk of loan defaults, aiding banks in mitigating financial losses and improving decision-making processes.

- Technologies: Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn
- Key Features: Data collection, Exploratory Data Analysis (EDA), feature engineering, predictive modeling, model evaluation, data visualization
- Achievements: Achieved high accuracy and precision in predicting loan defaults. Identified key factors contributing to loan defaults, providing actionable insights for risk management.

3. Traffic Sign Recognition

- Description: Developed a CNN model to classify traffic signs with high accuracy, using TensorFlow and Keras.
- Technologies: Python, TensorFlow, Keras, OpenCV, NumPy, Pandas
- Key Features: Data preprocessing, CNN architecture with dropout regularization, model training, and evaluation.
- Achievements: Achieved high classification accuracy on the GTSRB dataset. Visualized training metrics and integrated the model for real-time

ROLES AND RESPNSIBILITIE

1. Communication: Effective communication is vital. You'll need to convey complex findings to both technical and non-technical stakeholders

2. Critical Thinking: Analytical reasoning helps you solve problems and make informed decisions based on data

3. Adaptability: The ability to learn and adapt quickly is essential in a dynamic field like data analytics

4. Attention to Detail: Meticulousness ensures data accuracy and reliable insights

5. **Collaboration:** Working well with cross-functional teams is crucial for successful projects

EDUCATION

MSC(statistics) 2021 - 2024

Siddhartha PG college, Hyderabad/Telangana/lndia *CGPA:7.48/10*

BSC(statistics and computer science) 2016- 2021

New Siddhartha degree college for women, Hyderabad/Telangana/lndia *CGPA:8.24/10*

Intermediate(MPC) 2014 - 2016

T.S model Jr.college, pochampally/Telangana/lndia *GPA: 6.57/10*

SSC 2013 - 2014

Z.P.H.S (Girls) High School, pochampally/Telangana/Jndia *GPA:8.0/10*