K.R. ANKITH

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SKILLS

Programming Languages:	Python (Pandas, NumPy, SciPy, MatPlotLib, Scikit-learn. Seaborn, TensorFlow/Keras, OpenCV)
Databases:	MySQL
BI & Visualization Tools:	PowerBI, Tableau, MS Excel
Others:	Machine Learning, Deep Learning, Cloud Computing, Statistics

PROJECTS

Waste Classification for Smart Bins using CNN   September 2024

- Developed a waste classification system using **Convolutional Neural Networks (CNN)** to automatically sort waste into categories like plastic, paper, metal, and organic.
- Leveraged **Python** and **Deep Learning** frameworks like **TensorFlow/Keras** to build and deploy the waste sorting model.
- Implemented **preprocessing** techniques with **OpenCV** to enhance the quality of image inputs for efficient model training and classification.
- Designed the system for real-world integration into smart waste bins, promoting automated recycling and sustainable waste management.

Real Time IPL Team Win Probability and Ball by Ball Forecasting   August 2024

- Developed a dynamic match prediction system for the Indian Premier League, utilizing **machine learning** models trained on historical data to predict win probabilities and outcomes on a ball-by-ball basis.
- Integrated real-time data streaming with **Kafka** to feed live match statistics into the model, providing accurate and updated predictions throughout the game.
- Engineered a cloud-based pipeline using **AWS** to process and analyze large-scale historical and live match data efficiently.
- Designed interactive dashboards with **Power BI** and **Streamlit** to visualize predictions, player performance, and match insights in real time.
- Utilized **Python**, **Machine Learning**, and **Deep Learning** frameworks for model development, with **Big Data** tools to handle high-volume datasets.

Bankruptcy Prevention   July 2024

- Executed a classification project to predict business bankruptcy using financial indicators, applying **Logistic Regression** to assess bankruptcy risk with a binary prediction variable.
- Analyzed financial data using **Python**, **Pandas**, and **NumPy**, modeling various financial features to predict the likelihood of bankruptcy.
- Utilized **MatPlotLib** for visualizing data trends and model performance, helping to communicate insights effectively to stakeholders.

EDUCATION

CDAC, Mumbai, India   March-August 2024
PG Diploma in Big Data Analytics

Disha Institute of Management and Technology, Chhattisgarh, India   2014-2018
Bachelor of Engineering (Mechanical)

INTERESTS

Passionate about new technology, love watching sports, love playing games.