Balchander Reddy Yedla

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Objective

Enthusiastic and detail-oriented B. Tech student specializing in Machine Learning and Artificial Intelligence, with strong programming skills and a proven track record in project development. Passionate about solving complex problems and eager to contribute innovative solutions in the tech industry.

PROJECTS

Food Price Prediction using Machine learning:

- Developed a predictive model to forecast food prices based on historical data, utilizing Python and machine learning techniques.
- Implemented an ensemble model (Random Forest) and Linear Regression to achieve an initial accuracy of 90%.
- Optimized model performance using hyperparameter tuning, improving accuracy to 95%.
- Preprocessed data using standard scaling and feature engineering to enhance model robustness.

Maze Solver using A* Algorithm:

- Designed and implemented a maze-solving application using the A* algorithm and heuristic functions in Python..
- Developed a graphical user interface (GUI) with the Tkinter library to provide an interactive user experience.
- Represented paths and blocks using binary matrices, with the algorithm dynamically finding optimal solutions.

- Enhanced understanding of graph traversal techniques and optimization strategies.

Encrypted One Time Password:

- Developed a secure OTP system using SHA-256 encryption to prevent unauthorized access and mitigate digital crime.
- Automated OTP verification with text box reading, ensuring confidentiality and ease of use.
- Implemented features to auto-expire OTPs after 40 seconds, bolstering security protocols.
- Demonstrated a 50% reduction in digital vulnerabilities through enhanced encryption techniques.

Nykaa Man rating prediction:

- Built a sentiment analysis and product rating prediction system using Natural Language Processing (NLP) techniques (BERT, RoBERTa).
- Extracted and analyzed customer reviews to compute average product ratings with high precision.
- Developed a recommendation mechanism to suggest higher-rated alternatives for low-rated products.
- Proposed a future enhancement to forecast ratings for new products, enabling proactive marketing strategies.

EDUCATION

Bachelor of Technology (B. Tech.)   Sep 2022 – Present
Geethanjali College Of Engineering And Technology

Diploma (Polytechnic)   July 2019 – Sep 2022
TRR College Of Technology

St. Mark's High School(10th)   June 2018 – March 2019

SKILLS

Python | C | C++ | Java | Web design | Machine Learning | Artificial Intelligence |