Munukutla Lakshmi Lavanya

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⬡ https://github.com/Lavanya573

Training

Adversarial Nibbler Challenge - Prompt   **October 2024-January 2025**

- Designed and tested advanced prompts to evaluate AI image generation models for safety and content guidelines.
- Collected and annotated tricky prompts to check AI behavior and generate safe outputs.
- Reported unsafe outputs to improve model safety and robustness.

Projects

Image -text-Generations | *CNN, LSTM, Word Embedding, TensorFlow*   **September 2024 - November 2024**

- Designed and developed Tripease – a smart hotel and tourism management web application to streamline hotel bookings, tour package reservations, and guest services on a single platform.
- Implemented role-based access control (Admin, Staff, Guest) and dynamic room/tour management using Django and PostgreSQL for real-time data handling.
- Integrated online payment processing, cart functionality, and notification system for booking confirmations, cancellations, and support.

News Article Recommendation | *Word2Vec, K-Means*

- Designed and implemented a personalized news recommendation system using NLP, leveraging Word2Vec embeddings and K-Means clustering to analyze article content and user preferences.
- Developed a hybrid recommendation model that integrates collaborative and content-based filtering, optimizing suggestions through cosine similarity.
- Achieved high precision, recall, and silhouette scores, enhancing user engagement while minimizing information overload on news platforms.

House Price Prediction | *SVM, Linear Regression, Random Forest*   **June 2024 – July 2024**

- Developed a House Price Prediction model using machine learning algorithms to estimate property prices based on features like location, area, bedrooms, and bathrooms.
- Preprocessed and analyzed a Kaggle dataset, applying feature engineering and selection techniques to improve model accuracy.
- Evaluated multiple models, including Linear Regression, Decision Trees, and Random Forests, and deployed the best-performing model using Flask.

Certificates

Elite Badge Certificate on Cloud Computing   **July 2024**

NPTEL — https://archive.nptel.ac.in/noc/B2C/candidate_login/main.php

Build AI Apps with ChatGPT, Dall-E, and GPT-4   **April 2024**

Coursera — https://www.coursera.org/account/accomplishments/verify/N9EHLYSJQKDZ

AI/ML And Data Science   **July 2024**

Coding Blocks — https://online.codingblocks.com/app/certificates/CBOL-302114-e5a53975

Technical Skills

Languages: Python, C++, Java

Technologies/Frameworks: GitHub, PyTorch, Scikit-learn, TensorFlow, Matplotlib, Seaborn

Skills: Project Management, Problem-Solving, Responsive Web Design, Adaptability

Education

Lovely Professional University Punjab   **Since October 2022**

Computer Science and Engineering — CGPA: 7.6   *Jalandhar, Punjab*

MPRM. Sri Viswasanti   **April 2019 - March 2021**

12th with MPC — Percentage: 92.60%   *Vijayawada, Andhra Pradesh*

DR. KKR Gowtham School   **April 2018 - March 2019**

10th — CGPA: 9.5   *Rajahmundry, Andhra Pradesh*