Munukutla Lakshmi Lavanya

LinkedIn: https://www.linkedin.com/in/lavanya-munukutla/ Email: lakshmimunukutla4@gmail.com
GitHub: https://github.com/Lavanya573 Mobile: +91-9989722377

Skills

- **Languages**: Python, C++, Basic Java, SQL
- **Frameworks & Libraries**: GitHub, HTML, CSS, Django, TensorFlow, Scikit-learn, pandas, NumPy
- **Tools/Platforms**: Jupiter Notebook, Google Colab
- **Soft Skills**: Team Player, Adaptability

Training

Adversarial Nibbler Challenge Oct 2024-Jan 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

Coding Blocks Jun 2024 – Jul 2024

- Completed hands-on training focused on core concepts of Data Science and Machine Learning, including supervised learning, model evaluation, feature engineering, and data preprocessing.
- Developed a machine learning model to predict house prices based on features such as location, area, number of bedrooms, and bathrooms.
- Implemented algorithms including Support Vector Machine (SVM), Linear Regression, and Random Forest for accurate price estimation, achieving an R^2 score of approximately 0.87

Projects

Tripease: Hotel and Tourism Management Jul 2025

- 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

Image-to-text generation using CNN and LSTM: Nov 2024

- In this project, a CNN extracts visual features from images, which are then passed to an LSTM for generating captions.
- The LSTM uses image features and prior word predictions to create a sequence of words.
- This combined architecture enables the generation of accurate and descriptive captions for images.
- The model is trained on large datasets of image-caption pairs to improve its performance and generalization,achieving a BLEU score of approximately 0.63

Certificates

- Basic HTML & CSS Mar 2025
- Elite Badge Certificate on Cloud Computing – NPTEL Nov 2024
- Coding Blocks: Data Science and ML Jul 2024
- SQL basic Certificate from Hacker Rank Oct 2023

Achievements

Hack -AI: Feb 2025

Participated in a Hackathon – Sustainable AI development

Research Paper Publication: Dec 2024

Accepted research paper titled *"Image Captioning using LSTM and CNN"*.

NCC Achievement: Jul 2022

Successfully participated in NCC, demonstrating leadership, discipline, and teamwork, and secured a *B Grade*

Education

Lovely Professional University Punjab, India
Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.6** Since Oct 2022

MPRM Sri Viswasanti High School *Vijayawada, Andhra Pradesh*
Intermediate; **Percentage: 92** Apr 2019 - Mar 2021

Dr. KKR Gowtham School High School *Rajahmundry, Andhra Pradesh*
Matriculation; **Percentage: 95%** Apr 2018 - Mar 2019