Munukutla Lakshmi Lavanya

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SKILLS

- **Languages**: Python, Basic Java
- **Frameworks & Libraries**: GitHub, Git, 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.

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
- Extracted visual features from images using a CNN and generated descriptive captions with an LSTM network.
- Trained the model on large datasets of image-caption pairs to enhance accuracy and generalization, achieving BLEU-1 score of 0.72.
- Created an end-to-end pipeline for automatic image captioning that produces precise and context-aware text outputs.
- Enabled real-time caption generation for practical applications such as accessibility tools and content management systems.

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.

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