

Munukutla Lakshmi Lavanya

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SKILLS

- **Languages:** Python, Java, HTML, CSS
- **Frameworks:** Scikit-learn,
- **Tools/Platforms:** Jupiter Notebook, Google Colab
- **Soft Skills:** Team Player, Project Management, Adaptability

TRAINING

Coding Blocks

Jun – 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

Smart AI – Based Accident Detection & Alert System

Feb 2025

- Developed an AI-powered system that automatically detects accidents using CCTV footage and computer vision.
- Sends instant alerts with live location details to nearby hospitals and police stations.
- Utilizes TensorFlow and OpenCV to detect collisions and facilitate a faster emergency response.
- Helps reduce response time and improve safety in remote and urban areas.

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 the 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.

CERTIFICATES

- Elite Badge Certificate on Cloud Computing – NPTEL Nov 2024
- Coding Blocks: Data Science and ML Jul 2024
- Python basic Certificate from Hacker Rank Jun 2023
- SQL basic Certificate from Hacker Rank oct 2023
- C - certificate from Cyber World Sep 2022

ACHIEVEMENTS

Hack -AI:

Feb 2025

Participated in Hackathon

Hacker Rank Recognition:

Feb 2025

Achieved *Silver Badge* in Java on Hacker Rank.

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: 7.5**

Since Oct 2022

MPRM Sri Viswasanti High School

Vijayawada, Andhra Pradesh

Intermediate; **Percentage: 92**

Apr 2019 - Mar 20

Dr. KKR Gowtham School High School

Rajahmundry, Andhra Pradesh

Matriculation; **Percentage: 95%**

Apr 2018 - Mar 2019