NALLAMILLI SATISH KUMAR REDDY

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Education

Godavari Institute of Engineering and Technology **Dec 2021 – May 2025**
Bachelor of Technology in Computer Science with 8.42 CGPA

Aditya Junior College **June 2019 – April 2021**
Intermediate(M.P.C) with 96.2 Percentage

Meher Vidya Niketan **June 2018 – April 2019**
SSC with 10.0 GPA

Internships

Artificial Intelligence Medical and Engineering Researchers Society **May 2024 – July 2024**
Artificial Intelligence Intern

- Developed an AI powered vehicle detection and classification system using YOLOv8.Training the model to detect and classify the vehicles into cars, trucks etc. Collected and preprocessed a custom dataset to improve classification accuracy for different vehicle types. The model is implemented using Python, OpenCV,YOLOv8
- Developed a deep learning-based Visual Question Answering system that integrates images and provides accurate responses to text based queries. The model integrates Convolutional Neural Network(CNNs) for image feature extraction and LSTMs/Transformers for natural language processing.

Andhra Pradesh State Skill Development Corporation **May 2023 – July 2023**
Webdevelopment using Django Intern

- Learned the fundamentals of Django framework and MVC architecture.
- Gained hands-on experience in building basic web applications.
- Worked with Django models, views, templates, and forms.

Projects

Integrating RF Signal Analysis and Deep Learning for Effective Drone Classification and Detection

- Developed an advanced RF-based drone detection system leveraging deep learning techniques for accurate classification. Implemented signal processing with Software-Defined Radio (SDR) to capture RF signatures, using Convolutional and Recurrent Neural Networks (CNNs & RNNs) for real-time classification. Enhanced detection accuracy through a hybrid framework combining supervised and unsupervised learning. The system demonstrated high precision in diverse environments, offering scalability and adaptability for security applications.

Vehicle Renting System using Django

- This project aims to develop a web-based vehicle renting system using Django,,HTML,CSS,SQLite. The system will enable users to browse and rent vehicles, manage bookings, and make payments online. The platform will provide features such as user registration, vehicle catalog management, booking management, payment gateway integration, and admin dashboard for managing vehicles, bookings, and payments.

Object Detection using YOLOv8

- Developed an AI powered vehicle detection and classification system using YOLOv8.Training the model to detect and classify the vehicles into cars, trucks etc. Collected and preprocessed a custom dataset to improve classification accuracy for different vehicle types. The model is implemented using Python, OpenCV,YOLOv8.

Visual Questioning and Answering Model

- Developed a deep learning-based Visual Question Answering system that integrates images and provides accurate responses to text based queries. The model integrates Convolutional Neural Network(CNNs) for image feature extraction and LSTMs/Transformers for natural language processing.

Tourism Static Website

- Built a responsive tourism website using HTML, CSS, JavaScript, and Bootstrap. Showcased multiple destinations with images, descriptions, and interactive carousels. Used JavaScript to navigate between sections without page reloads.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: MS Excel, MS Word, Jupyter Notebook, Github
Database: MySQL