MANGALA LALITENDRA

7306179179 | mangalalalitendra@gmail.com | Linkedin | LeetCode | CodeChef | GitHub

CAREER OBJECTIVE

Aspiring AI/ML professional with hands-on experience in real-time projects, eager to contribute to innovative teams and solve challenging problems. I am always ready to learn new skills and passionate about taking on diverse projects that drive impactful results.

EXPERIENCE

AI-ML Intern   2023 – Present
Robocoupler

As an AI-ML intern, I developed and deployed applications leveraging diverse AI and software tools to address real-world challenges.

- Offline CSV Chatbot: Built a chatbot using Llama 3 for natural language queries on CSV data.
- Offline Naval Assistant: Developed an offline chatbot for naval assistance using HTML, CSS, and JavaScript.
- PDF Answering Tool: Created an app to answer questions from PDFs with LLM models.
- Telemedicine Platform: Designed a Node.js platform for remote monitoring of patient vitals via AWS IoT.
- Task Scheduler App: Developed an Android app for employees to manage tasks using MIT App Inventor.

Al-ML Virtual Internship   2022 – 2023
AWS achademy (Link)

During my 10-week AWS Academy internship, I gained hands-on experience with AI and ML, working on real-world applications using AWS tools. Key tasks included:

- Deploying ML models on Amazon SageMaker for automated data analysis.

- Enhancing model accuracy through data preprocessing and hyperparameter tuning.

- Building predictive time series models with Amazon Forecast.

- Implementing facial recognition with Amazon Rekognition for computer vision.

- Creating a chatbot with Amazon Lex and exploring NLP tools like Comprehend, Polly, and Translate.

EDUCATION

B.Tech – CSE (Artificial Intelligence and Machine Learning)   2020 - 2024
- *Raghu Institute of Technology*, Visakhapatnam, AP
- CGPA - **8.45**

Board of Intermediate Education   2018 - 2020
- *Sri Chaitanya Junior College,* Visakhapatnam, AP
- CGPA - **9.09**

Board Of Secondary Education   2017 - 2018
- *Siva Shivani Public School,* Visakhapatnam, AP
- CGPA - **9.7**

PROJECTS

AI - Powered Mobile Application for Visually Impaired People (Final Year Project)
Developed a mobile app for visually impaired users, using AI to identify objects, read text, scan barcodes, detect currency, and recognize colors. Leveraged tools like YOLO, Tesseract, ZBar, pyzbar, SVM, and CNNs for practical, accessible solutions.

Offline Ai-Powered Data Analysis Chatbot
Built an offline system for natural language interaction with CSV files, enabling private, instant data analysis and visualization. Key features include efficient multi-CSV support, natural querying, and automated graph generation using PandasAI and LLaMA 3.

Lane Detection For Autonomous Vehicles Using Raspberry Pi
This project uses a Raspberry Pi to implement lane detection for autonomous vehicles by processing camera images to detect and track lane markings. It applies techniques like edge detection, Hough Transform, and line grouping to calculate the steering angle for lane-keeping.

SKILLS

Python, SQL, HTML, CSS, JS, Power BI, Flask, Data Analysis, Data Visualization, Machine Learning Algorithms, Natural Language Processing, Computer Vision

CERTIFICATIONS

- Completed NPTEL certification on **"DATABASE MANAGEMENT SYSTEMS"** (Link)
- Completed NPTEL certification on **"INTRODUCTION TO MACHINE LEARNING".** (Link)
- Completed **"AWS ACADEMY GRADUATE - AWS ACADEMY CLOUD FOUNDATIONS"** (Link)
- Completed **"DATA STRUCTURES AND ALGORITHMS USING PYTHON"** (Link)

PERSONAL DETAILS

- **Date of Birth:** 29/04/2003
- **Address:** Parawada, Anakapalle , 531020
- **Nationality:** Indian
- **Languages Known:** English, Telugu, Hindi

ACHIEVEMENTS

- Solved 150+ Data Structures and Algorithms problems on LeetCode, CodeChef, and HackerRank.
- Completed the MADBLOCKS Machine Learning Bootcamp from 13th to 18th July 2021.
- Attended a One-day IEEE Workshop in association with the IEEE Student Branch.