MITHUN S

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Salem ,Tamil Nadu

Motivated and enthusiastic about artificial intelligence and data science, possessing a strong grounding in both practical application and theoretical knowledge. Excited to utilize technical abilities and analytical reasoning to address intricate issues in creative settings. Flourish in lively environments where innovation intersects with advanced technology. Prepared to offer new insights and achieve tangible outcomes on significant initiatives

EDUCATION

Holly Cross Matriculation Higher Secondary School, Salem
77% MAY 2022 – APRIL 2023 (12th)

Knowledge Institute of Technology, Salem — *Btech AIDS*
Pre Final Year —*SEP 2023 - MAY 2027 (7.9 CGPA)*

PROJECTS

1. **Sentiment Analysis:**
   This project builds a sentiment analysis classifier using Python and NLTK. It processes raw text reviews then trained to classify text as either positive or negative, providing a practical foundation in natural language processing

2. **Image Classifier:**
   I have built a model to classify images of different natural scenes (like forests, glaciers, and streets) using a powerful technique called transfer learning. This project is perfect for understanding the end-to-end machine learning workflow

3. **Spam Detection:**
   A complete AI-powered Spam Detection System that works with: SMS Messages , Emails (.eml parsing supported) ,Images (JPG/PNG) via OCR ,PDF Attachments via OCR . It detects whether input is Spam or Ham (Not Spam).

4. **AI Stock Predictor:**
   This is an effective web application that uses a machine learning model to predict future stock prices based on historical data.

5. **Landslide Rover: hardware**
   Developed Land Rover monitoring systems using Arduino and ESP32 microcontrollers, integrating GPS, accelerometer, and OBD-II sensors for real-time vehicle diagnostics. Implemented wireless connectivity for tracking terrain performance, fuel efficiency, and off-road navigation data.

6. **AI Driven water cleaning Rover : hardware**
   Built an AI-enabled autonomous water surface cleaning rover using Arduino and ESP32 with multi-sensor arrays including TDS sensors, IMU, and vision systems. Deployed machine learning models for trash classification, obstacle avoidance, and intelligent route planning to maximize water purification coverage.

ACHIEVEMENTS :

1. Participated in workshops and won hackathons focused on AI solutions.
2. Volunteered for tech outreach programs to promote coding and AI literacy among high school students.

SKILLS

Programming Languages: Python (2.X, 3.X), Java(basics), C++, EMEBEDDED C, SQL, Web technologies (HTML, CSS, JS, REACTJS, TYPESCRIPT, NEXTJS)

Frameworks & Libraries: Pandas, NumPy, Matplotlib, TensorFlow, tesseract, vendor-specific sdk

Tools: Git, Jupyter Notebook, Anaconda, PyCharm, VS code, Google Co-labs, Arduino Ide, Power BI, MySQL, Oracle

Concepts: Machine Learning, Data Visualization, Data analysis

AI Tools and agents: 20+ AI tools for development and enterprises, n8n, Zapier, Microsoft Power automate, MCP.

AWARDS

IEEE ROBOTICS (CHAPTER - STAMPFORD RUNNER UP)

CMTI-Bangalore hackathon 2025 2nd runner-up.

LANGUAGES

ENGLISH, TAMIL, HINDI, TELUGU