



S MAHALAKSHMI

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EDUCATION

Vellore Institute of Technology, Chennai

B.Tech in Computer Science with Specialization in Artificial Intelligence and Robotics
CGPA 7.52

INTERNSHIP EXPERIENCE

Bahwan CyberTek

Sep 2023 – Oct 2023

Worked as quality assurance intern in QA team and learnt about ISO standards, Quality assurance, Software development life cycle and Cyber security.

Capabl India

Aug 2023 – Sep 2023

Worked as Data science intern and gained expertise in predictive modeling, data collection, data analysis, machine learning, model deployment and data visualization through projects, including house price prediction and predicting taxi trip duration using machine learning.

LearnSmashers

May 2024 – Jun 2024

Worked as a Artificial Intelligence intern and acquired hands-on experience with AI technologies and computer vision techniques.

SKILLS

Competitive coding

Python, C++, Java

Data Structures and Algorithms

Database

SQL

Machine Learning -

NumPy, Pandas, Sci-kit learn, Matplotlib, Seaborn, Tensorflow, OpenCV

Data Science -

Machine learning, EDA, Excel

Developer Tools-

Git, VSCode, Jupyter, Colab

Data Visualization Tool

PowerBi

PROJECTS

Python E - Learning Tutorial, (Python - Tkinter, MySQL)

Developed a Python tutorial application with user authentication, registration, and interactive learning levels (Easy, Medium, Hard) using Tkinter (GUI). This also included a timer-based quiz feature at the end and integrated with MySQL database for user management details, progress tracking and quiz scores. Mar 2021

Face Emotion Recognition (OpenCV, Tensorflow, CNN, Flask)

Developed a real-time face emotion detection OpenCV for real-time video capture and image processing, facilitating efficient emotion recognition within the Flask web application. I also trained a VGG-16 model for emotion recognition and deployed it in real time video monitoring. Jan 2023

NLP Based Chatbot for a Business Web Application

Developed a food joint's website from scratch and built a chatbot using Dialogflow, leveraging NLP and machine learning. Integrated the chatbot with the website and connected it to a MySQL backend using Python's FastAPI. Created a secure tunnel for the backend server and deployed the product using Netlify's web hosting services. Mar 2024

AI Plagiarism Checker (Transformers, Tokenizer, NLTK, Streamlit)

Designed and developed an plagiarism detection tool utilizing transformer-based model (GPT-2) for natural language processing. • Implemented multi-language support, enabling the detection of AI-generated content across various languages by integrating Google Translate API. Jun 2024

Chat with your PDF chatbot, (Streamlit, HuggingFace, FAISS, LangChain)

Developed an AI-Rag based project using Streamlit interface enabling users to upload, summarize, and query multiple PDF documents using NLP techniques with Hugging Face's GPT-2 model and the LangChain library. Automated the PDF processing workflow using LangChain's PyPDFLoader and used FAISS index for embedding storage and accurate vector-based document retrieval. Jun 2024

CERTIFICATES

Introduction to deep learning and neural networks with keras- Coursera

Google Cloud Computations Foundations - NPTEL

Supervised Machine Learning : Regression and Classification - Coursera

AWS Academy Graduate- AWS Academy Cloud Foundations Badge

Machine Learning with Python - Coursera

Artificial Intelligence - Coursera

Spoken Tutorial - C, C++, Python, SQL, Java

Face Recognition Application using Python - GUVI Geek Network

Enterprise Automation Certificate - Workato

VOLUNTEERING

Participated in Smart India Internal Hackathon VITISH 2023, Sept 2023

Member at HackClub VIT Chennai March 2023 - Jun 2024