




WORK EXPERIENCE

- Research Internship : ESIEA Paris, France (Remote)** January 2025 - Present
Working on the "Complex Human Emotion Detection Using YOLO11" research project.
 - Enabled real-time detection of 22 discrete human emotions by training on the CFEE dataset using YOLO11.
 - Fine-tuned YOLO11 (COCO-pretrained) using transfer learning for real-time emotion detection.

PROJECTS

- The AI Scientist: Sakana AI** Python, LLMs, Transformers, Git
Contributed to Sakana AI's Open Source project to Automate the Scientific Research. 
 - Added 8 open-source language models, achieving a 75% reduction in generation costs.
 - Adapted the model for compatibility with T4 GPU, moving away the dependency on high-end GPUs like H100/A100.
 - Released a research paper titled "*Exploring Style Transfer with Small Character-Level Transformers*", utilizing the Qwen2.5(72B) language model.
- Development of Python Module: XS** Python, Ngrok, API Creation
Creating Endpoint URLs for Open-Source LLMs 
 - Engineered and released a Python package for generating Endpoint URLs for LLMs.
 - Supports 99% of open-source LLMs available on Hugging Face.
 - Utilizes the Ngrok API to establish a secure tunnel from the server's localhost to the global network.
- Remote Shell Access Bot: XAdmin** Python, Telegram, Networking, Operating Systems
Establishes Reverse Shell Connections without login credentials 
 - Access the host PC's shell remotely without the host's awareness.
 - Transforms your Telegram chat into a command line for your PC, enabling remote administration from a distance.
 - Supports 5+ features including *remote file sharing, screenshot capture, terminal access, IP address extraction*, etc.

TECHNICAL SKILLS

- Programming Languages:**
Python, React, JavaScript, C, C++, SQL, Matlab, R
- AI and LLM Tools/Frameworks:**
LangChain, LlamaIndex, Ollama, HuggingFace Transformers, PyTorch, TensorFlow
- Data Analysis and Visualization Tools:**
Pandas, Numpy, Seaborn, Power BI
- Miscellaneous Skills:**
Linux, MacOS, Competitive Programming
- Soft Skills:**
Leadership, Communication, Problem Solving

RELEVANT COURSEWORK

- Core Computer Science:**
Object Oriented Programming, Database Management System, Computer Architecture Organization, Computer Network, Operating System, Data Structures and Algorithms
- Artificial Intelligence and Data Science:**
Artificial Intelligence, Data Visualization, Pattern Recognition and Machine Learning, Natural Language Processing
- Mathematics and Theoretical Foundations:**
Theory of Computation, Cryptography and Network Security

ACHIEVEMENTS

- Indian Institute of Management (Data Analyst) Hackathon Winner, 2024** 2024
8 hour long Hackathon, organized by InFED at Nagpur on 12 November 2024 
 - Won 1st place by presenting a solution to the Startup's Problem: **AI Product Comparison**.
 - Automated the generation of a **22-page report** using a Python-based AI Agent, significantly reducing manual effort and time by 90%.

EDUCATION

- Bachelors of Technology (Hons.) CSE Data Science** 2022-Present
(6th Semester) Chhattisgarh Swami Vivekanand Technical University, Bilai, 491107 CGPA : 7.2/10
 - Research Internship at ESIEA Paris, France (Remote) under the project "Complex Human Emotion detection with Ultralytics YOLO11".