Prabhudayal Vaishnav

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Bachelor of Technology (Hons.) CSE, Data Science

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 GitHub Profile

 LinkedIn Profile

EDUCATION

- **Bachelor of Technology (Hons.) in Computer Science and Engineering (Data Science)** *2022-26*
  Chhattisgarh Swami Vivekanand Technical University, Bhilai, 491107 CGPA: 7.2/10
  Ongoing Semester : 5th, Previous Semester's GPA : 7.9/10

- **School Education** *Class 10: 88.9%*
  Kendriya Vidyalaya BMY Bhilai, 490025 Class 12: 78.2%

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.

- **XGenAI Telegram Bot** *Python, LlamaIndex, LLM, Telegram API*
  Telegram bot featuring Retrieval Augmented Generation (RAG) capabilities
  - Developed an intelligent Telegram bot using Meta Llama 3.1, offering document-based Q&A with a 90% response accuracy.
  - Successfully implemented in over 5+ real-world scenarios for educational purposes.

TECHNICAL SKILLS

- **Programming Languages:** Python, React, JavaScript, C, C++, SQL, Matlab, R

- **AI and LLM Tools/Frameworks:** LangChain, LlamaIndex, Ollama, HuggingFace Transformers, PyTorch, TensorFlow

- **Cloud Platforms:** High Performance Cluster (CDAC Paramutkarsh), Amazon Sagemaker, Ola Krutrim, Google Colab

- **Data Analysis and Visualization Tools:** Pandas, Numpy, Seaborn, Power BI

- **Miscellaneous Skills:** Linux, LT Spice, Cisco Packet Tracer, Davinci Resolve, Adobe After Effects

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 Hackathon Winner, 2024 *2024*

Data Analyst Hackathon organized by IIM-Nagpur's incubation center 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%.