ANAND SAHU

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Enthusiastic and detail-oriented Engineer with honors in Artificial Intelligence and Machine Learning, seeking opportunities to apply advanced analytical and programming skills in real-world scenarios. Eager to contribute innovative solutions and leverage my expertise to address complex challenges in the field.

Education

Sarvajanik College of Engineering and Technology

2020-2024

Bachelor of Engineering in Electronics & Communication With Honors in AIML , 8.38(CGPA)

T and TV Sarvajanik High School

2018-2020

Higher Secondary, 75%

Internships

Nuacem AI (Hyderabad)

JUNE 2024 - NOVEMBER 2024

Machine Learning Engineer (Intern)

- Gained the insights of advance tools in machine learning helpful in real world problems.
- Here I come to know about different tools to solve Complex ML problems by leveraging the power of AI.
- Develop different kind of projects like Custom Dataset AI Chatbot, Image Information Extractor etc.

Code Unnati

JANUARY 2024 - APRIL 2024

AIML/IOT Trainee

- Gained Experience in different algorithm of Machine Learning.
- Here I come to know about the use of algorithm in different dataset.
- Develop an understanding of code hardware interaction for system control using grove pi board.

Pantech Solutions(online)

APRIL 2023 - MAY 2023

Intern

- Gained proficiency in embedded programming and interface.
- Here I come to know about the use of embedded C in interfacing.
- Develop an understanding of code hardware interaction for system control

Projects

Conversational RAG QA System

Technologies: Python, Streamlit, LangChain, FAISS, Google Embeddings, ChatGroq Llama-3.1, SQLite

- Developed a **RAG pipeline** for answering queries from PDFs, DOCX, and TXT documents using embeddings and vector search.
- Integrated **ChatGroq Llama-3.1** for contextualized, history-aware query responses.
- Built a **Streamlit UI** for document upload, vectorization, and seamless interaction.
- Implemented session-based chat history using **SQLite** for continuity.
- Optimized modular architecture with **FastAPI** for backend processing.

Impact: Simplified real-time document QA, showcasing expertise in Generative AI, RAG, and NLP tools.

Transformer Model Development

- Implemented a decoder-only transformer model from scratch using PyTorch, showcasing advanced understanding of neural network architectures.
- Engineered custom tokenization, attention mechanisms, and positional encodings for efficient sequence modeling.
- Achieved optimized model training through gradient clipping and learning rate scheduling, enhancing convergence.
- Demonstrated expertise in PyTorch, transformer architectures, and model optimization techniques.

Multi-Source RAG System

- Built an Advanced Retrieval-Augmented Generation (RAG) model that integrates multiple data sources including Wikipedia, arXiv, and a custom tool for website embeddings.
- Employed Google Gemini-Pro and Google Generative AI Embeddings for high-quality contextual responses.
- Leveraged LangChain library for agent creation and query routing, and deployed the solution via Streamlit for seamless user interaction.

and many more you can check here

Technical skills

Programming Languages: C, C++, Python, OOP, SQL,Pytorch **Git and Git hub, Artificial Intelligence and Machine Learning,**

Natural language processing, Important Libraries: Hugging Face, Langchain, Streamlit, Docker, Boto3,

LLMS: OPEN AI, LLAMA, GOOLE GEMINI, CLAUDE AI, AWS(Bedrock)

Vector Databases: FAISS, CHROMA, OBJECTBOX, ASTRA

Tools: vs code, pycharm, Jupyter

Cloud Deployment :- AWS (EC2,Lambda, Fargate,S3,Bedrock and more)

Soft skills

- Communication and adaptability
- Problem solving
- Time management

- Teamwork
- Leadership
- Certifications
- BCG GenAI Job Simulation on Forage August 2024
- TCS ion Young Professional (TCS)
- Creating your first python program (Coursera)

Achievements

- Google digital marketing
- Learning how to learn (Coursera)
- Active participant in college event and awarded as student of year 2022
- Organized a Technical event in college tech fest 2023 which includes more than 140 participants

Declaration

I hereby declare that all the information provided in this resume is true and accurate to the best of my knowledge.