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 Artificial Intelligence and Machine Learning, 8.38(CGPA)

T and TV Sarvajanik High School   **2018-2020**

Higher Secondary , 75%

Internships

Cogninest AI (Hyderabad)   **DECEMBER 2024 –PRESENT**
Data Scientist (Intern/Full-Time)

- Developed and deployed **end-to-end time series forecasting pipelines**, optimizing **data preprocessing, model training, and deployment**.
- Automated **data collection and workflow integration** using **Zapier**, reducing manual effort.
- Built **scalable ML models** for real-world business problems with **cloud-based deployment**.
- Applied **MLOps best practices**, ensuring **version control, monitoring, and CI/CD integration**.

Nuacem AI (Hyderabad)   **JUNE 2024 –DECEMBER 2024**

Machine Learning Engineer (Intern)

- Generative AI Chatbot for Document Interaction – Built an AI chatbot to retrieve information from PDF, DOCX, and text files using LLMs.
- Image Error Extractor with Vision LLM – Developed an automated tool using Google's Vision LLM to extract and classify error codes from images.
- Generative AI Chatbot for Document Comparison – Created an AI-powered chatbot to analyze, compare, and highlight differences between documents using LLM-based NLP.

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.

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.

Vehicle Data Processing Pipeline

Technologies: AWS (EC2, S3, ECR), Docker, GitHub Actions, Python, Flask, Pandas, Scikit-learn

- Built an end-to-end pipeline for vehicle data ingestion, transformation, and feature engineering.
- Deployed web app on AWS EC2 with Docker containers for scalability and portability.
- Implemented CI/CD using GitHub Actions for seamless deployment.
- Integrated data validation and transformation processes to ensure high-quality insights.
- Hosted the solution on AWS with S3 for storage and ECR for container management.

Impact: Demonstrated expertise in MLOps, cloud-native deployment, and scalable system design.

And many more on Portfolio Link

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
- 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.