ANAND S. SATYA

AI/ML Engineer

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PROFESSIONAL SUMMARY

- Machine Learning Engineer with a B.Tech in Computer Science Engineering (CSE), specializing in data analytics, AI-driven applications, and predictive modeling.
- Proficient in Python, SQL, and data analysis tools like Excel and Power BI, with experience in machine learning frameworks such as Scikit-learn, TensorFlow, and OpenCV.
- Skilled in building, optimizing, and deploying AI/ML models for real-world applications, including computer vision, NLP, and automation.
- Developed AI-powered applications like a Driver's Drowsiness Detection system, leveraging deep learning and OpenCV for real-time safety monitoring.
- Built an AI chatbot integrating NLP and API-driven responses, enhancing automated interactions.
- Worked on real-time data applications such as a Live Sports Score App, utilizing React and APIs for seamless updates.
- Passionate about AI, machine learning, and data-driven decision-making, with hands-on experience in mentorship and collaborative projects.
- Eager to contribute AI/ML expertise to dynamic teams and innovative projects in data science and artificial intelligence.

EDUCATION

Bachelor of Technology (B. Tech.- CSE)

- Oriental Institute Of Science And Technology 2020-2024
- CGPA-8.01

Higher Secondary Education

- Kamla Nehru Hr. Sec. School 2017-2019

WORK EXPERIENCE

Debugshala | Data Science Engineer | Oct 2024 - Present

- Conducted in-depth data analysis to extract insights, detect anomalies, and understand underlying patterns in large datasets.
- Designed and implemented machine learning models for predictive and classification tasks, optimizing accuracy and efficiency.
- Built end-to-end AI solutions, handling data preparation, feature selection, and model fine-tuning to enhance performance.
- Researched and applied advanced NLP techniques, improving chatbot interactions with context-aware AI responses.
- Developed dynamic Power BI dashboards, presenting key metrics and AI model outputs in a visually compelling format.

TECHNICAL SKILLS

- Programming Languages
  - Python
  - C++
  - SQL
- Machine Learning & AI:
  - Hugging Face,RAG
- Data Analysis & Visulization:
  - Pandas
  - Numpy
  - Matplotlib
  - Power BI
- Databases: MySQL
- Version Control - Git , GitHub
- Tools & Platform :
  - Google Colab
  - VS CODE
  - Excel

PROJECTS

AI Chatbot

- **Key Technologies: Python, GROQ API , Flask**

- Developed a chatbot using Python,Cursor leveraging the GROQ API for dynamic response generation.
- Implemented a user-friendly interface and integrated natural language processing to enhance query understanding and accuracy.

DRIVER's DROWZINESS DETECTION

- **Key Technologies: Python , OpenCV , Keras**

- Driver Drowsiness Detection System using Python, OpenCV, and Keras to enhance road safety by detecting driver fatigue in real-time. The system captures video from a camera, analyzes the driver's eye state (open or closed), and triggers an alarm if drowsiness is detected.

Quantum Rag Bot

- **Key Technologies: Python , llm , Groq api, Phidata**

- Built a RAG bot for AI-driven quantum computing insights.
- Implemented chunking, embedding, and vectorization for efficient data retrieval.
- Integrated Groq-powered LLaMA model for generating context-aware responses.
- Optimized semantic search for fast and accurate query handling.