ANDE USVESWARA SAINATH

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SUMMARY

- A passionate and detail-oriented Computer Science undergraduate specializing in Artificial Intelligence and Machine Learning. Seeking an entry-level Data Analyst Intern role where I can apply my front-end development skills, AI knowledge, and strong analytical thinking to build impactful, user-centric applications while continuing to grow as a Software developer.

EDUCATION

- B. Tech - CMR College of Engineering and Technology	**2022 – 2025	CGPA: 7.98**
- Diploma - TRR College of Technology	**2019 – 2021	CGPA: 6.17**
- SSC - Rosary High School	**2009 – 2019	GPA: 8.7**

PROJECTS

Project1: **AI-Based Learning Content Generation & Learning Pathway Augmentation**

Description: Developed an AI-driven web platform that dynamically generates personalized educational content and adaptive learning paths. Integrated GPT-2, BERT, and T5 for text generation and quizzes; used CNN for Human Activity Recognition (93%+ accuracy).

Tools: Python, HTML, CSS, JavaScript, MySQL, GPT-2, BERT, T5, CNN, Django

Responsibilities:

- Collected, cleaned, and analyzed data from various sources to enhance learning pathways.
- Created dashboards and visualizations to present data insights effectively.
- Performed exploratory data analysis to identify trends, patterns, and anomalies in educational content engagement.
- Assisted in building data models and statistical reports to support project goals.
- Documented analysis processes and findings clearly for future reference.

Project2: **Generator Skates**

Description: Built a prototype skateboard where wheel rotation powers a DC generator to charge phones, earbuds, or batteries.

Tools: Basic electronics, DC generator motor

Responsibilities:

- Conducted data analysis on energy output efficiency to optimize design.

Project3: **Quake Guard**

Description: This project is a Non-Invasive Tool for Earthquake Detection and Identification features a design and AI-based deep learning technology that integrates CNN and RNN processes to study current seismic information and forecast earthquakes. The enhancements incorporated into this project were necessary because of the drawbacks of conventional seismology - limitations in feature extraction, a large class imbalance, and the need for manageable infrastructure. Improved detection speed and reliability was attained which allows for early warnings and lowers the time taken to respond to disasters.

Tools: Python, PyTorch, Pandas & NumPy, CNN, RNN, Matplotlib & Seaborn

Responsibilities:

- Collaborated closely with senior analysts to support project goals and enhance data accuracy.
- Documented analysis processes and findings clearly to facilitate knowledge sharing.

TECHNICAL SKILLS

- Python, SQL (enhanced with data handling and analysis)
- Power BI, MS Excel (strong knowledge for data visualization)
- HTML, CSS, JavaScript

SOFT SKILLS

- Communication, analytical thinking, attention to detail

CERTIFICATIONS

- B2B-Bud to Business - Organized by Centre of Engineering Education Research, CMR College (2023-02-06)

ACHIEVEMENTS

- Demonstrated strong analytical skills through various projects and internships.
- Gained hands-on experience with real-world data and analytics tools.