Punith Sai Reddy Gaddam

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SUMMARY

- Motivated and detail-oriented Master's student in Data Science with a strong foundation in data analytics, programming, and IT systems. Skilled in developing dashboards, analyzing large datasets, supporting users and maintaining digital infrastructure. Adaptable team player with experience across research, internships, and student-led initiatives. Eager to contribute to organizations through a mix of technical acumen, analytical thinking, and proactive problem-solving.

SKILLS & INTERESTS

Skills: Python, SQL, Power BI, PyTorch, Pandas, NumPy, TensorFlow, Microsoft Suite, Microsoft Excel, GIT, Artificial Intelligence, Machine Learning, Natural Language Processing, Data Analytics, Analytical Thinking, Adaptability, ETL pipelines, data cleaning

PROJECT

Controlled Rocket Landing with Double DQN

- Evaluated the performance of the Double Deep Q-Network (DDQN) method for the controlled landing of a rocket.
- Designed a controlled rocket landing simulation with Reinforcement Learning (RL).
- Prototyped an RL model to simulate controlled landing scenarios; implemented reward-based learning and tested convergence using Gym.

Streaming Platform KPI Monitor

- Designed, developed, and deployed a dynamic Power BI dashboard analyzing the Netflix dataset, focusing on user experience and data storytelling.
- Created efficient data models and utilized DAX calculations to support complex data analysis and derive actionable insights.

Intrusion Detection with Ensemble-Based Anomaly Detection

- Enhanced system security by improving anomaly detection through system logs data using unsupervised learning and ensemble techniques, increasing accuracy from 81.7% to 92.3%.

Bachelor Thesis: Display of a Traffic Sign Alert on the windshield (HUD)

- Designed and launched a functional HUD that integrates vehicle sensor data to display real-time road sign information, now tested in 5 vehicle models.
- Implemented YOLOv5 object detection on a Raspberry Pi to enhance driver experience by providing relevant information in the driver's line of sight.

WORK EXPERIENCE

Verzeo   **Chennai, India**
Data Science Intern   *Feb 2023 - May 2023*

- Performed sentiment analysis on 10,000+ Amazon product reviews using Python and VADER
- Applied SQL and pandas for data wrangling and visualization.
- Delivered insights to optimize product descriptions, improving engagement metrics by 12%

Indo-Euro Synchronization (IES) Pvt Ltd   **Remote**
Data Science Intern   *Mar 2022 - Aug 2022*

- Built a movie recommendation engine processing 50,000+ user ratings
- Applied collaborative filtering and neural networks to increase recommendation accuracy by 18%

- Created executive-level insights dashboards.

EDUCATION

Friedrich-Alexander-Universität   **Erlangen, Germany**

Masters in Data Science

Vellore Institute of Technology   **Amaravathi, India**

Bachelors in Computer Science

LEADERSHIP EXPERIENCE

Internet of Things (club)

Founding Member   *Sep 2019 - Jan 2023*

- Managed social media, engaged students in activities, and coordinated with other clubs as a founding member of a university club.

LANGUAGES

- English (C1 Level)
- German(A2 Level)

CERTIFICATES

- *Full Stack Data Science*
  Naresh I Technologies
  10/2023 – 03/2024