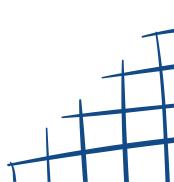


Data Science



About Us

with the skills, knowledge, and mindset needed to thrive in a rapidly evolving world. Our mission is to bridge the digital divide, foster leadership development, and enhance academic growth, empowering young minds to At Digital Empowerment, we envision a future where youth are equipped realize their full potential.

To achieve this, we offer comprehensive virtual internships across various domains, providing students with invaluable hands-on experience and practical skills essential for success. Furthermore, we are committed to assisting exceptional students in securing positions at prestigious companies, helping to launch their careers and build a brighter future for themselves and future generations.

Instructions

- 1. Enhance your online presence by updating your LinkedIn profile.
- 2. For successful completion of the internship, complete one level (Level 1, 2, or 3) of the Web Development internship at your own pace.
- 3. Keep your tasks organized in a separate GitHub repository named "DEP" and share the link in the task submission form.
- 4. Utilize online resources like Google Search, tutorials, and videos to assist you in completing the tasks.





Anomaly Detection in Network Traffic:

□ Objective: Detect anomalies in network traffic that may indicate potential security breaches. □ Description: Analyze network traffic data to identify patterns and detect anomalies that could signify cyber threats or unusual activities.

☐ Key Steps:

o Data collection and preprocessing

o Feature extraction (e.g., packet size, time intervals)

o Anomaly detection algorithms (e.g., Isolation Forest,

Autoencoders)

o Evaluation and validation of detected anomalies

