Kiana Kiashemshaki – Project Portfolio

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Introduction

I am a passionate and detail-oriented computer scientist specializing in Cybersecurity.
With a strong academic foundation and hands-on experience in infrastructure management, data-driven analysis, and cybersecurity tools. I aim to leverage my skills to develop innovative solutions that enhance security and user experience. My portfolio showcases my journey through various academic, professional, and personal projects.

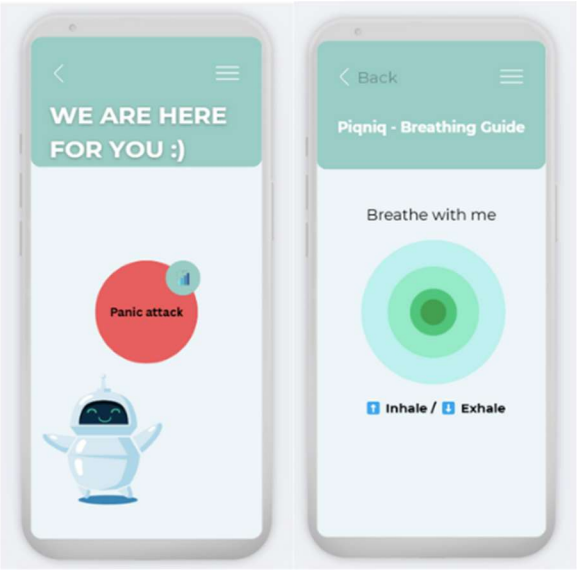
Projects

1 - Title: Piqniq – Emergency Support for Panic Attacks (2nd Place Winner – BGSU ACM Hackathon)

Skills: TypeScript, CSS, JavaScript, HTML, Google Maps API.

Description: Developed a mobile web app to assist individuals during panic attacks. With one tap, users can send real-time alerts and location to emergency contacts. The app features a calming interface, virtual assistant, and breathing guide to reduce stress while help arrives.

Link: Piqniq

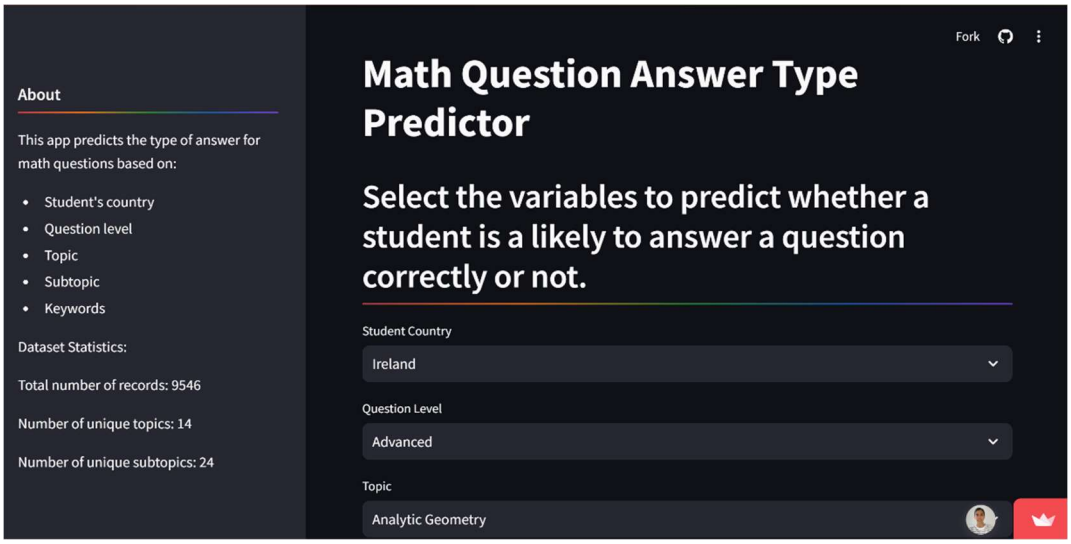


2 - Title: Comprehensive Analysis of Factors Affecting Mathematics Learning in Higher Education

Skills: Python, Pandas, NumPy, scikit-learn, Matplotlib, Statistical Analysis.

Description: Conducted an in-depth analysis of factors influencing mathematics learning outcomes in higher education. Utilized statistical testing and machine learning techniques to predict performance trends and cluster similar behaviors. This project provided actionable insights into enhancing educational strategies for students.

Link: Math App

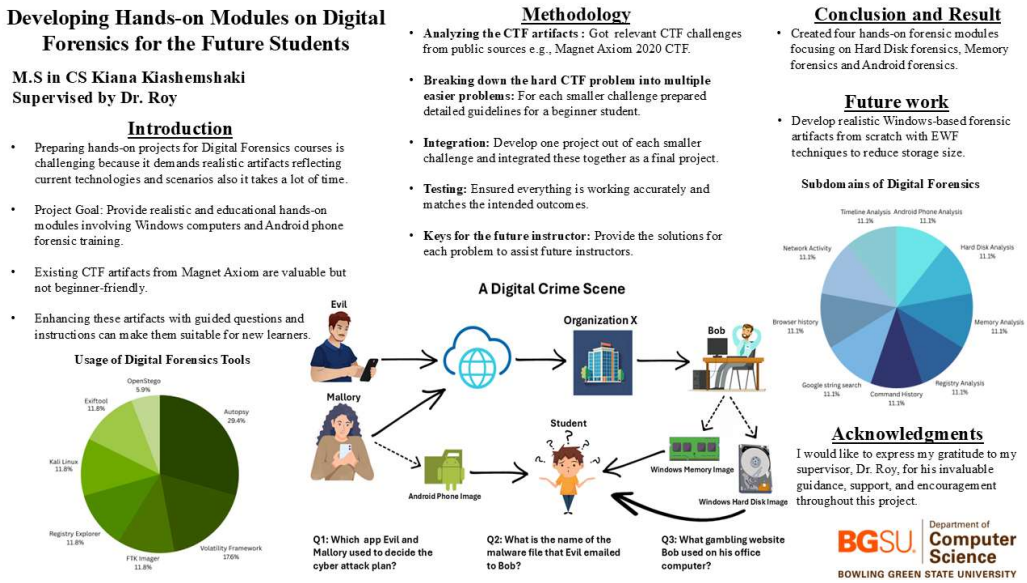


3- Title: Developing Hands-On Modules on Digital Forensics

Skills: Autopsy, Kali Linux, FTK Imager, Volatility

Description: Designed beginner-friendly educational modules focused on digital forensics. Topics covered hard disk forensics, memory forensics, and Android phone investigations. The modules aimed to make complex forensic concepts accessible while encouraging practical learning.

Link: Digital Forensics



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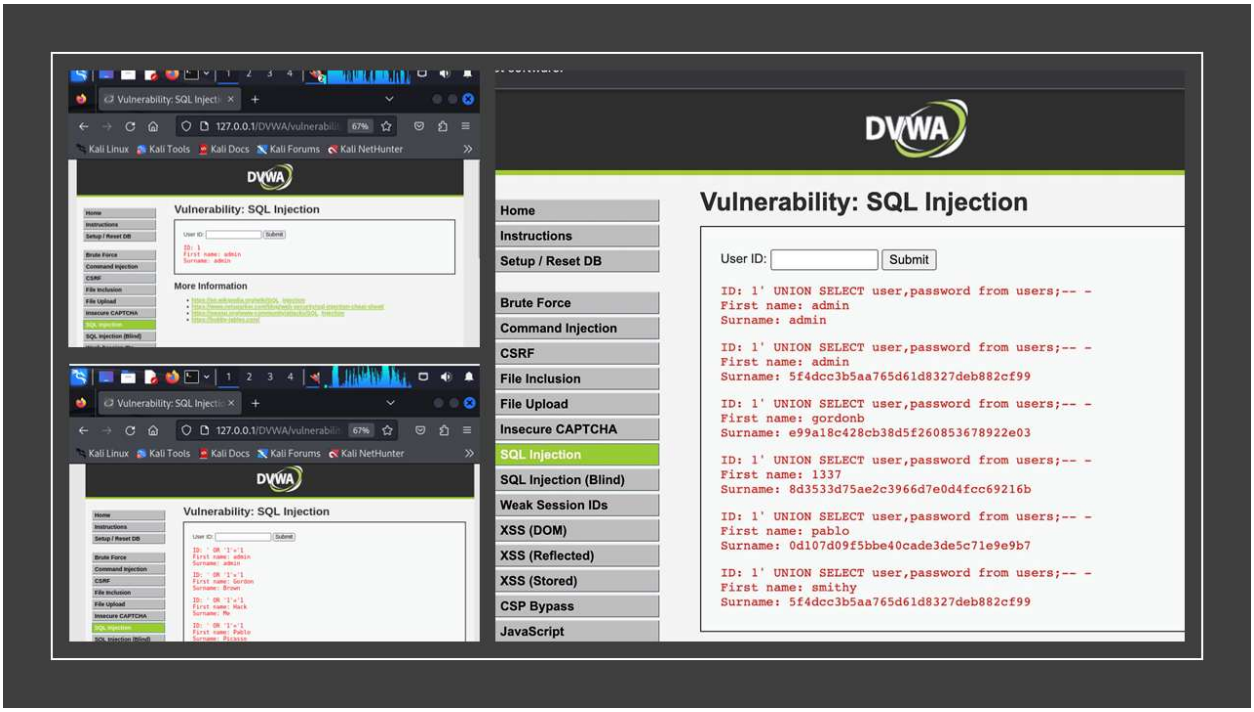
4 - Title: SQL Injection Vulnerability Testing on DVWA (Damn Vulnerable Web Application)

Skills: Kali Linux, Penetration Testing, SQL Injection, Web Application Security

Description: Conducted a comprehensive vulnerability assessment on the DVWA focusing on SQL injection techniques. Tested various payloads to manipulate SQL queries and reveal sensitive data from the database. Explored basic and advanced injection methods, uncovering user information, password hashes, and metadata. This project sharpened my skills in web application security, SQL injection exploitation, and ethical hacking.



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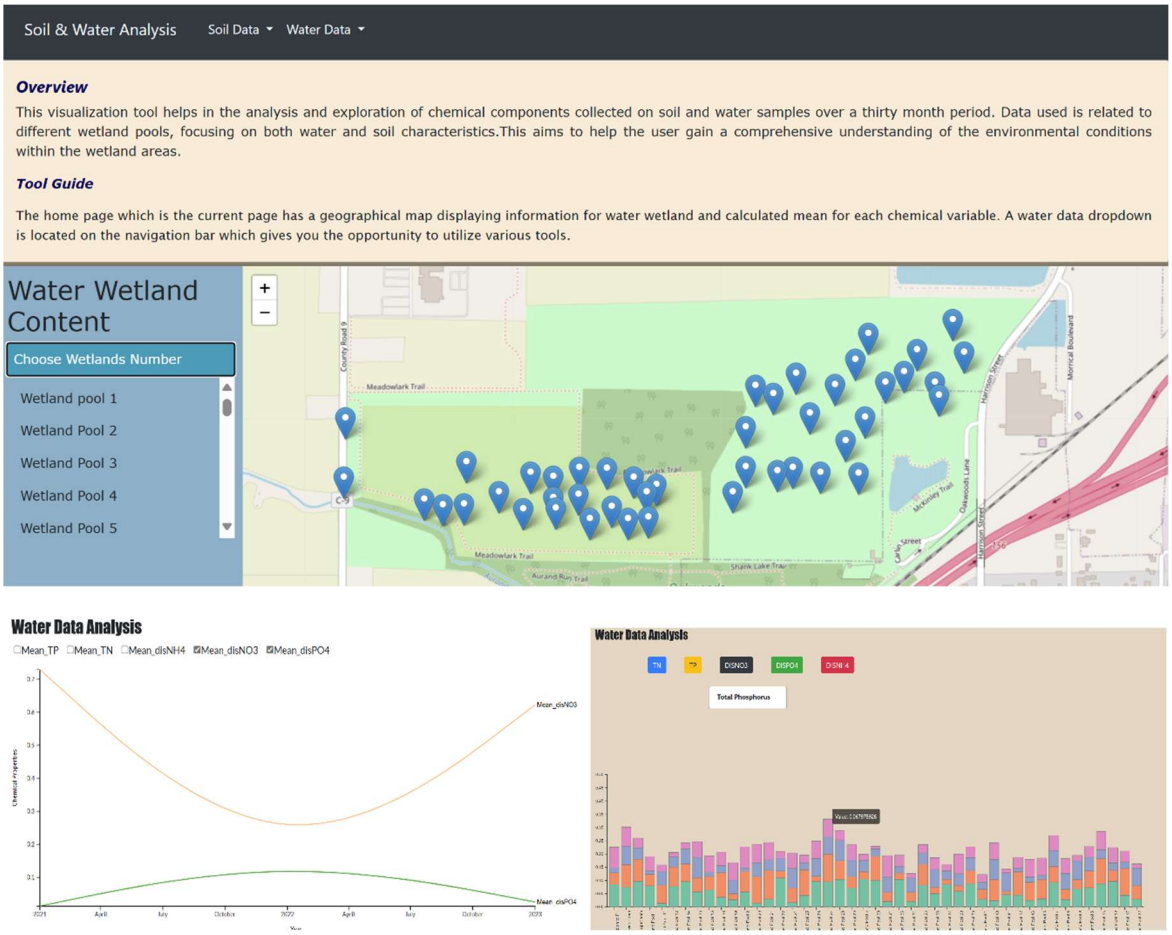
5 - Title: Water and Soil Analysis Visualization

Skills: HTML, CSS, JavaScript, D3.js, Bootstrap.

Description: Developed interactive and dynamic visualizations for field data related to water and soil behaviors. The project allowed scientists and researchers to explore and analyze experimental data in a visually engaging and intuitive manner.

Link: [Visualization]



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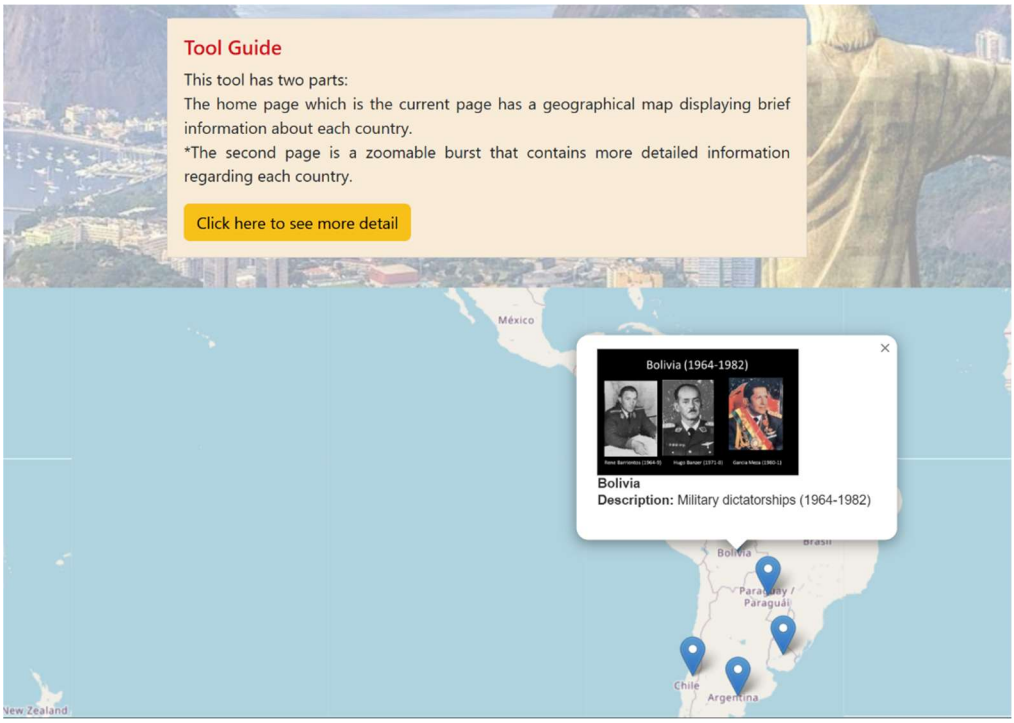
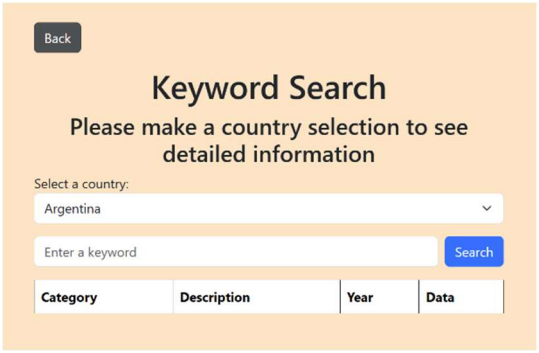
6 - Title: South America Country Analysis

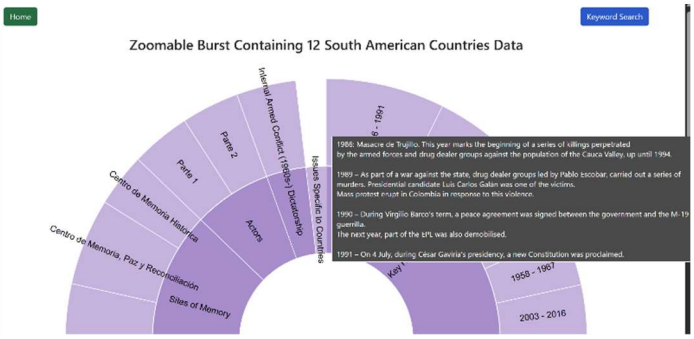
Skills: HTML, CSS, JavaScript, D3.js, Bootstrap.

Description: Created a data visualization tool to explore socio-economic and geographic datasets from 12 South American countries. The project utilized interactive charts and maps to reveal patterns and regional insights effectively.

Link: [Visualization]







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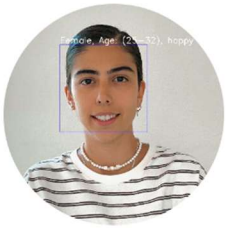
7 - Title: Face Detection Application

Skills: Python, Flask, OpenCV, MTCNN.

Description: Built a user-friendly web application that enables face detection in uploaded images. Leveraged the MTCNN algorithm for precise recognition, ensuring a seamless user experience through an intuitive interface.

Link: [Repository access]

Project Description



Hi, I'm Kiana Kiashemshaki. This project detects facial emotions using the FER library in Python, integrated with Flask and OpenCV. Upload an image, and it will highlight faces and display the detected emotions (like smiles), along with predicted age and gender. This project showcases a simple yet effective implementation of facial detection, emotion recognition, and age/gender estimation, which is a good example of leveraging deep learning for real-world applications.

Upload Image

Choose an image:

Choose File No file chosen

Upload