Mirza Hasan

Software Developer

I am a software developer skilled in C, C++, Python, React, React Native, Express.js, MySQL, and MongoDB. I create responsive web and mobile apps and excel in both front-end and back-end development. I focus on delivering high-quality, scalable solutions and thrive in collaborative environments.

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EDUCATION

B.Sc. in Computer Science and Engineering

United International University(UIU)

2020 - Present *3.51*

Higher Secondary School Certificate

Govt. Shaheed Bulbul College

06/2017 - 04/2019

PERSONAL PROJECTS

DocLink (03/2024 - 06/2020)

- Patients can track medical history
- Disease classification
- Patients can set alarms for medication
- Doctors can prescribe medicine
- OCR for detect Doctor's handwriting

PyroVision: A Deep Learning Based Model for Wildfire Detection in Satellite Imagery

- **Wildfire Importance**: Vital for ecosystems.
- **Dangers**: Rapid, catastrophic.
- **Causes**: Human activity, climate change.
- **Current Limits**: Inaccurate, incomplete.
- **Pyro Vision**: CNN with attention, 95.51% accuracy.
- **Effectiveness**: Detects individual fires and regions.
- **Benefit**: Enhances safety, mitigates disasters.

SecurCounsel - Elevating University Management System Security (10/2023 - 12/2023)

- Developed "SecurCounsel, " a security framework for university management systems.
- Implemented SQL Injection prevention, DoS/DDoS mitigation, and two-step verification.
- Applied access controls and proprietary authentication for streamlined user management.
- Used firewalls, encryption, and backup strategies to protect data in transit and at rest.

Image Classifier (03/2024 - 04/2024)

- **Image Upload** : Users can upload images directly through the web interface.
- **Prediction Display** : The system classifies the uploaded images and displays the predicted categories.
- **User-Friendly Interface**: Intuitive design for easy navigation and use.

Predict diabetic with footprint (01/2023 - 04/2023)

- Using Custom Dataset
- CNN Based Classification
- 85% accuracy

SKILLS

C | C++ | React | React Native | Mysql | Digital Image Processing | Machine Learning | Express | PHP

ACHIEVEMENTS

Published Paper in IEEE Explore (12/2024)

Wildfires are crucial to maintaining wildlife ecosystems but pose significant dangers due to their rapid spread and catastrophic effects, often driven by human activity and climate change. Current detection methods are limited in accuracy and comprehensiveness. To address this, we introduce Pyro Vision, a novel detection system using Convolutional Neural Networks (CNN) with attention mechanisms, achieving a 95.51% accuracy rate. Pyro Vision effectively detects both individual wildfires and affected regions, enhancing environmental safety and disaster mitigation.

ORGANIZATIONS

Member In UIU App Forum

CERTIFICATES

CSE Project Show Spring '24 (Software Lab Champion) (06/2024)

CSE Project Show Fall '22 (SAD Lab Champion) (01/2022)

CSE Project Show Summer '22 (DBMS Lab Champion) (09/2022)

LANGUAGES

C
Full Professional Proficiency

C++
Full Professional Proficiency

Python
Full Professional Proficiency

Java
Full Professional Proficiency

PHP
Full Professional Proficiency

JavaScript
Full Professional Proficiency

INTERESTS

Reading Book | Problem Solving | Exploring Thesis