Franklin CD Samuel

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EDUCATION

George Mason University, Fairfax, US

Aug 2022 - May 2024

Master in Computer and Information Science

GPA: 3.48/4.00

Relevant coursework: Web development, Algorithms, DBMS, Information Security and Machine Learning

Vellore Institute of Technology, Vellore, India

Jul 2018 – Jun 2022

Bachelor of Technology in Computer Science and Engineering Specialization in Bio-informatics

GPA: 3.7/4.00

• Relevant coursework: UI/UX , Artificial Intelligence, Lean Start-up Mgmt and Human Computer Interaction

SKILLS

Languages: C++, C, python, JavaScript, SQL, Java, HTML, CSS, Go, PHP

Tools:: Visual Studio, Jupyter, MySQL, Django, React, MERN stack, Scikit, git, AWS, Google Cloud, Google Collab, TensorFlow, Linux and PyTorch

Software skills: Software Development in React, Node.js, Flask, JUnit, Drupal, WordPress, Material-UI, Visual Studio, Jupyter, MySQL, MongoDB, Django, MERN stack, Scikit, git, AWS-EC2, Google Cloud, Google collab, Tensorflow, and PyTorch

Coding Skills:- Coding, Web development, debugging, Algorithms, Machine Learning, Artificial Intelligence

PROFESSIONAL EXPERIENCE

Housing and Residence Life, George Mason University, Fairfax, US

Jul 2023 - Present

Web Developer and Designer(Drupal, Wordpress, Dubbot and Wrike)

HRL at GMU offers an inclusive, community-centric living experience that supports student success and personal growth.

- Led a cross-functional team in the redesign and continuous improvement of web pages, resulting in 50% improvement in overall user experience satisfaction and a 40% increase in website conversion rate and total users to 200 K
- Identified the need for accessibility improvements on web pages to align with industry standards ,maintained WCAGcompliant guidelines across web pages ensuring industry standard user accessibility. Reduced issues by 85%
- Initiated and executed the design and introduction of groundbreaking web functionalities, rigorously assessed through user testing procedures; the ensuing enhancements markedly amplified annual revenue by \$500k

Central Water Park Research Park Station, Pune, India

Apr 2021 - Dec 2021

Machine Learning Research Intern(Tensorflow and QGIS)

CWPRS serves as a premier research and development facility dedicated to advancing water resource management and technology

- Led the comprehensive planning and compilation of an new datasets. Gathering, data cleaning and pre-processing over 100K empirical data points. Created data pipelines to improve data quality resulting in 30% data accuracy
- Collaborated with Industrial Experts to devise ML algorithms such as DNN with ADAboost ,SVM and Random forest with XGBoost to predict the depth of shallow water. Achieved a notable 15% improve in accuracy with the optimal solution
- Presented findings and insights to the stake holder. The optimal model produced a staggering accuracy of 85% and also implemented AGILE Methologies to improve development time by 25%

National Institute of Electronics and Information, Chennai, India

Jan 2022 – Mar 2022

Machine Learning Research Intern(Pytorch and Git)

NIELIT is a leading institution dedicated to advancing research, education, and innovation in electronics and information technology.

- Presented with a challenge to create and optimise Cycle Generative Adverserial Networks to enhance style transfer application. The Frechet Inception Distance was less than 10 percent
- Led thorough model evaluations, identifying and addressing performance bottlenecks to achieve a 90% success rate in GAN performance
- Pioneered the integration of spectral normalization and gradient penalty techniques into GAN training procedures, elevating generation quality by 20%, establishing a new benchmark for AI model stability

PROJECTS & RESEARCH

Water Depth Estimation Using Sentinel-2 Satellites for Shallow Water

• Directed the research and implementation of advanced algorithm's, integrating SVMs and Deep Neural Networks to estimate shallow water depths from Sentinel-2 Satellite image bands achieving more than 90% accuracy

Covid and Pneumonia Detection using X-ray Image and CNN

• COVID and Pneumonia_detection model developed on Tensorflow and composed on Django framework and Flask backend with 98% accuracy

Research Paper Published in Springer

 Orchestrated a pioneering initiative centered on data analysis and interpretation in IoT-based systems for critical medical services and healthcare applications, resulting in a 50% enhancement in data accuracy

LEADERSHIP

Human Capital & Fundraising Fellow, Make A Difference

Sep 2020 – Nov 2022

• Led, interviewed and Recruited a group of 250+ people in the city of Vellore community as a fundraising city head for an NGO and Raised more than 15 million INR all over the country