HEMANTH KUMAR REDDY TIYYAGURA

Fairfax, Virginia, 22030

GHC 2023 **(**703) 975-7183 **▼** tiyyagurahemanth inLinkedin Portfolio () Hemanth

EDUCATION

George Mason University

Master of Science - Computer Science(ML Concentration); GPA: 3.63

January 2022-December 2023*

Thanjavur,India

Virginia, United States

July 2016 - July 2020

SASTRA University

Bachelor of Technology - Computer Science; GPA: 7.7/10

Relevant Coursework:

Machine Learning, Deep Learning, Analysis Of Algorithms, Software Engineering, Object Oriented Programming, Computer Vision, Python Programming, Database Systems, Natural Language Processing, Data Structures, Web Programming, Cloud Computing

SKILLS

• Technologies: Machine Learning, Deep Learning, Open-CV, Natural Language Processing, Cloud Computing(AWS)

Python, SQL, HTML, CSS, C • Languages:

Scikit ,Django, NLTK, Streamlit, TensorFlow, Keras,Pytorch Flask • Frameworks:

• Tools: Power BI, Tableau, Kubernetes, Docker, MySQL ,MS Excel, MS Power Point, MS Word

• IDE: Google Colab, Sypder, Pycharm, JupyterLab

• Platforms: Windows, AWS, Linux

• Soft Skills: Leadership, Event Management, Time Management

EXPERIENCE

Cognizant Technology Solutions

India

Programmer Analyst (Full-time)

Aug 2019 - Nov 2020

- o API Gateway: Developed API for clients to retrieve customers information using API Gateway and AWS Lambda.
- o Tableau Monitoring: Monitored Tableau dashboard and solved the tableau alerts that occurs from the client side .
- o R-Studio Admin: Support to the R-Studio Developers and resolved the issues that comes in the R-studio workflow .

PROJECTS AND PUBLICATIONS

• EcoClassifier-Flask-based Garbage Classification Web App: (Flask, Python, CNN, Tableau, Pytorch, HTML)

- o Developed an innovative Flask-based web application that utilizes CNN to classify waste materials into recyclable or organic categories with PyTorch to achieve accurate waste classification (92% accuracy)
- o The user-friendly web interface allows individuals to upload images of waste items and receive instant predictions, promoting sustainable waste management practices and raising awareness about recycling.
- o Integrated Tableau for data visualization, presenting waste management insights and trends.

• New York Taxi Fare Prediction: (Streamlit, Python, Regression, ML, scikit, folium, seaborn)

- o Designed a Streamlit web app for New York taxi fare prediction using Ridge and Lasso regression techniques, with data transformation and visualization using Folium and Seaborn.
- Utilized Python programming and data science libraries to create an intuitive and user-friendly interface for predicting taxi fares.

• Facial Emotion Recognition using YOLO and CNN: (Python, CNN, Scikit, Pytorch, Computr Vision)

- Published a research project in Springer, presenting a comprehensive facial recognition system that integrated Haar Cascade for facial detection, data augmentation to enhance dataset diversity, and CNN for precise facial emotion classification.
- o Paper Title:Recognition of Facial Expression Using Haar Cascade Classifier and Deep Learning
- o IEEE Publication Link: https://link.springer.com/chapter/10.1007/978-981-16-5529-6_27

• Static Website Hosting with AWS: (AWS S3,AWS EC2,Apache Tomcat)

- o Orchestrated the hosting of a website in AWS Cloud, leveraging Amazon S3 for static content and deploying an Apache Tomcat Server on an EC2 instance for dynamic content.
- o Demonstrated expertise in AWS services such as S3 for scalable and cost-effective storage and EC2 for deploying web applications, ensuring efficient website delivery and performance.

$\bullet \ \ Full \ Stack \ Ecommerce \ Website: (Django, MySQL, Bootstrap, HTML, CSS, Python, RestAPI, CRUD)$

- o Developed a full-stack food app website using Django framework with Bootstrap for responsive user interfaces featuring user authentication for secure login and registration.
- o Collaborated in implementing CRUD operations, enabling users to effortlessly add items to the cart and manage their selections using POST, GET, and PUT data interactions.

CERTIFICATIONS AND AWARDS

- Actively participated in an NLP-focused hackathon organized by NIT Patna, securing 81st position.
- Certifications from Dockship platform for active participation in data science challenges.DOCKSHIP.
- Participated in the Robotics Conference organized by IEEE held at SASTRA University, Thanjavur, India

To explore more of my projects, please visit my portfolio at: Portfolio