HEMANTH KUMAR REDDY TIYYAGURA

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EDUCATION

- **George Mason University** — Virginia,United States
  Master of Science - Computer Science(ML Concentration); GPA: 3.63/4 — *January 2022-December 2023**
- **SASTRA University** — Thanjavur,India
  Bachelor of Technology - Computer Science; GPA: 3.5/4 — *July 2016 - July 2020*

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, NLP, Cloud Computing(AWS),Full Stack Development
- **Languages**: Python, SQL, HTML, CSS, C,Java
- **Frameworks**: Scikit ,Django, NLTK, Streamlit, TensorFlow, Keras,Pytorch,Flask,Angular
- **Tools**: Power BI, Tableau, Kubernetes, Docker,Git ,Informatica MySQL ,MS Excel, MS Power Point, MS Word
- **IDE**: Google Colab, Spyder, 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*
  - In my role at CTS, I spearheaded a transformative project that harnessed a suite of AWS services to build a robust and scalable **RESTAPI** for retrieving customers data
  - Integrated AWS services including **API Gateway**, **CloudFormation**, **Lambda**, and **RDS** for efficient customer data retrieval,**IAM**for user access control
  - Provided dedicated support to R-Studio developers through the **Jira portal**, assisting with troubleshooting and issue resolution.
  - Leveraged **SQL** expertise to investigate and diagnose data discrepancies, anomalies, and performance bottlenecks within the **Tableau** data sources.

PROJECTS AND PUBLICATIONS

- **EcoClassifier-Flask-based Garbage Classification Web App: (Flask,Python,CNN,Tableau,Pytorch,HTML)**
  - 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)
  - 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.
  - Integrated Tableau for data visualization, presenting waste management insights and trends.

- **New York Taxi Fare Prediction: (Streamlit,Python,Regression,ML,scikit,folium,seaborn)**
  - 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,Computer 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 emotion classification.
  - Paper Title:**Recognition of Facial Expression Using Haar Cascade Classifier and Deep Learning**
  - IEEE Publication Link: https://link.springer.com/chapter/10.1007/978-981-16-5529-6_27

- **Full Stack Ecommerce Website: (Django,MySQL,Bootstrap,HTML,CSS,Python,RestAPI,CRUD)**
  - Developed a full-stack ecommerce website using Django framework with Bootstrap for responsive user interfaces featuring user authentication for secure login and registration.
  - 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