

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 January 2022-December 2023*
- **SASTRA University** Thanjavur, India
Bachelor of Technology - Computer Science; GPA: 7.7/10 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, Natural Language Processing, Cloud Computing(AWS)
- **Languages:** Python, SQL, HTML, CSS, C
- **Frameworks:** Scikit ,Django, NLTK, Streamlit, TensorFlow, Keras, Pytorch Flask
- **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
 - **API Gateway:** Developed API for clients to retrieve customers information using API Gateway and AWS Lambda.
 - **Tableau Monitoring:** Monitored Tableau dashboard and solved the tableau alerts that occurs from the client side .
 - **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)**
 - 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,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.
 - 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
- **Static Website Hosting with AWS: (AWS S3,AWS EC2,Apache Tomcat)**
 - 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.
 - 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.
- **Full Stack Ecommerce Website: (Django,MySQL,Bootstrap,HTML,CSS,Python,RestAPI,CRUD)**
 - Developed a full-stack food app 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](#)