

Hemanth Kumar Reddy Tiyyagura

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EDUCATION

- George Mason University** Virginia, United States
• *Master of Science - Computer Science; GPA: 3.63* 2022 Jan - 2023 (Dec) expected
Courses: Machine Learning, Artificial Intelligence, Analysis Of Algorithms, Data Structures, Component Based Software Development, Mathematical Foundations in CS, Fundamental Systems of Programming, Databases
- SASTRA University** Thanjavur, India
• *Bachelor of Technology - Computer Science; GPA: 7.7/10* 2016 - 2020
Courses: Machine Learning, Deep Learning, Analysis Of Algorithms, Computer Vision, Python Programming, Database Systems, Natural Language Processing

SKILLS

- **Technologies:** Machine Learning, Deep Learning, Open-CV, Natural Language Processing, Cloud Computing(AWS)
- **Languages:** Python, SQL, HTML, CSS, C
- **Frameworks:** Scikit, 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

- **HR-Analytics Dashboard:** Created dashboard and story using Tableau Tool. The dashboard analysis shows the employee attrition in a company in different departments w.r.t. various parameters **Tech:** Python, Tableau. **Role:** Dashboard and Story development (**Mar'23**)
- **New-York Taxi Fare Prediction:** The proposed model can estimate the amount of taxi fare for a given drop-off and pick up coordinates in New-York city. **Tech:** Python, Machine Learning, Streamlit. **Role:** Code for Regression Models and Data Visualization (**Nov'22**)
- **Deployment on Kubernetes:** Developed docker image of Apache Tomcat to host website and used CI/CD pipeline to deploy it on Kubernetes cluster in GCP **Tech:** Docker Registry, Kubernetes, CI/CD, Docker Image. **Role:** Built Docker Image and Kubernetes Instance (**Nov'22**)
- **Website Hosting with AWS:** Hosted website in AWS Cloud with S3 and deployed Apache Tomcat Server in EC2 instance to host static website. **Tech:** AWS S3, AWS EC2, Apache Tomcat. **Role:** S3 bucket and EC2 instance to host website (**Sep'22**)
- **Pest Prediction in cotton plant:** The trained AI model detects whether the cotton plant is infected with pest or it is healthy. **Tech:** Python, Tensorflow, CNN, Flask. **Role:** Code for Data Preprocessing and CNN (**Jul'20**)
- **Data Visualization on Covid Cases:** Data Visualization is implemented on the Covid Cases in India using Tableau and Visualization tools in python. **Tech:** Python, Tableau. **Role:** Code for Data Visualization (**March'20**)
- **Facial Emotion Recognition:** Optimized AI model which takes input as human face and classify the human emotions. **Tech:** Python, TensorFlow, Open CV, Keras, Pytorch **Role:** Code for Haar Cascade and CNN (**Jan'20**)
- **Face Recognition:** Designed AI based model to recognize human faces. **Tech:** Python, TensorFlow, OpenCV. **Role:** Code for CNN and opencv (**Dec'19**)

PUBLICATIONS

- **Paper: Facial Emotion Recognition (Deep Learning, CNN, Computer Vision):** Published paper in SpringerLink. Paper Name: "Recognition of Facial Expression Using Haar Cascade Classifier and Deep Learning")
- **Publication URL:** https://link.springer.com/chapter/10.1007/978-981-16-5529-6_27

CERTIFICATIONS AND AWARDS

- Secured 81 position in HACK NITP 3.0 conducted by NIT Patna in Natural Language Processing - Jun'20
- Participated in the Robotics Conference held at SASTRA University, Thanjavur, India- Dec'16

VOLUNTEER EXPERIENCE

- **Tech Event Organiser-DAKSH** Thanjavur, India
• *Organized events, conducted workshops on AI technology at our University reaching over 200 students.* Jul'17 - Jul'19
- **Student Volunter at National Service Scheme** Thanjavur, India
• *Taught children and brought awareness among the farmers in agricultural field at backward areas* Jul'16 - Jun'18