HARSHITHA REDDY GUNDAVARAPU

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Tempe, Arizona - 85282, United States

EDUCATION

- **Arizona State University** *August 2024 - May 2026*
  Masters in Data Science, Analytics and Engineering Tempe, United States
  - GPA:4.00
  - Coursework: Statistics for Data Analytics, Data Processing at Scale, Information Assurance & Security, Statistics for Machine Learning, Knowledge Representation & reasoning, Data Mining, Deep Learning and Artificial Intelligence.
- **Malla Reddy University** *Decmber 2020 - April 2024*
  Bachelors in Computer Science with Specialization in Artificial Intelligence Hyderabad, India
  - CGPA:9.16
  - Coursework: Machine Learning, Big Data Analytics, Computer Networks, Artificial Neural Networks, Digital Image Processing, Computer Vision and Deep Learning, Database Management Systems, Data Visualization.

SKILLS

- **Programming Languages:** Python, R, C, JavaScript, Java.
- **Specialized Area:** AIML,Data structures,Agile,DL,Information Security and Assurance, Statistics and Mathematics,Natural language Processing,supervised Learning,Unsupervised and Semi-supervised Types of Regressions,SVM.
- **Frameworks:** Apache Hadoop, Apache Spark.
- **Technologies:** SQL, PostgreSQL, MongoDB, Tableau, AWS, Google Cloud ,HDFS.
- **Other Tools & libraries:** Pandas, Numpay, Keras, Tensorflow, scikit learn, Matplotlib,seaborn.

PROJECTS

- **Multiple Types of Cancer detection:26 types of cancer detection using CT/MRI images** *Jan 2024-May 2024*
  Tools: LWF,Convolution Neural Networks,Deep learning,bagging
  - Developed a CNN model with tools like LWF, deep learning, and bagging, achieving 95.4%accuracy in detecting from CT/MRI images.
  - Integrated Learning without Forgetting (LwF) to retain knowledge of previously detected cancers, improving efficiency by 40.56% accuracy.
  - Designed a user-friendly interface for image upload and single-image analysis, boosting operational performance by 20%
- **Horizon and Ship Detection: Detecting of Horizon line and ships using images** *Jul 2023-Nov 2023*
  Tools: Deep learning,CNN,Python,Scikit learn,keras, Tensorflow
  - Built a CNN-based model for accurate detection of ships and horizon lines in images, achieving over 93% accuracy in classification and object detection.
  - Employed advanced CNN architectures to optimize performance in challenging visual environments leading to a 15% increase in detection accuracy.
  - Designed a user interface for easy image upload, real-time analysis, and clear visualization of detection results, improving efficiency by 20%.
- **Crop Prediction in India: Crop Yield Detection Based on Growth Parameters** *Aug 2023-Nov 2023*
  Tools: Machine learning,SVM,K-means,Random forest
  - Developed model using semi-supervised learning with a unlabeled dataset with accuracy of 94.3%
  - Implemented Support vector Machine and K-means for classification of parameters like soil type and state,climate conditions crop type to improve competence by 35%
  - Analyzed the Dataset from Kaggle and collected more data from Indian Agriculture Research Institute

CERTIFICATIONS

- **Elite badge in "Deep learning" from IIT Ropar** *Jan 2023-April 2023*
- **AWS cloud functions and AWS with Machine learning** *Feb 2023-June 2023*
- **Completed internship from AICTE-Edu Skills in AWS cloud computing basics and AI-ML** *Oct 2022- Oct 2023*
- **Machine Learning with python from coursera** *Jan 2024-March 2024*
- **Python programming with 92 percentage from Internshala.** *May 2020-May 2021*