

Srijith Chetla

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EDUCATION

Vardhaman College of Engineering

Bachelor of Technology in Computer Science and Engineering (Data Science)

Aug 2023 - April 2027

CGPA: 9.45/10

EXPERIENCE

AI and ML Intern

NIELIT

August 2024 – October 2024

Online Internship

- Developed a Predictive Analytics in Healthcare project to forecast disease outcomes using machine learning
- Conducted data cleaning, preprocessing, and exploratory data analysis on the PIMA dataset using Pandas, Matplotlib, and Seaborn.
- Implemented models including SVM (66.67% accuracy, MSE: 0.986, R2: -3.36) and Random Forest (75.32% accuracy, MSE: 0.173, R2: 0.235)..

PROJECTS

Under Water Plastic Detection | Python, YOLOv8, Flask, JavaScript

February 2025

- Developed an object detection model using YOLOv8 to identify and classify plastic debris in underwater images.
- Achieved **Precision: 60.2%**, **Recall: 70.9%** and **mAP@0.5: 67.9%** on the validation set.
- Designed a web application for real-time detection and visualization.
- Integrated Flask for the backend API to handle model predictions and data processing.

Remaining Useful Life Prediction of Jet Engines | Python, LSTM, Keras, NASA C-MAPSS

July 2025

- Utilized NASA's C-MAPSS dataset to predict Remaining Useful Life (RUL) of aircraft engines based on time-series sensor data.
- Preprocessed multivariate sensor readings, engineered time-windowed sequences, and built LSTM-based regression models.
- Achieved accurate predictions with low RMSE, enabling predictive maintenance and reduced downtime in aerospace equipment.

Defect Detection in Metal Surfaces | Python, CNN, ResNet, YOLOv5, OpenCV

Aug 2025

- Developed a deep learning model to detect cracks and dents in metal using the NEU Surface Defect Dataset.
- Used ResNet for defect classification and YOLOv5 for real-time defect localization.
- Applied OpenCV for preprocessing industrial images to enhance detection accuracy.

TECHNICAL SKILLS

Languages: Python, R, Java, JavaScript, C, SQL, HTML/CSS

Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, SHAP, Matplotlib, Seaborn, Flask, FastAPI

Developer Tools: R-Studio, Git, GitHub, Docker, Jupyter Notebook, MySQL, VS Code

CERTIFICATIONS

- Machine Learning Specialization** – Stanford Online (Coursera) Jan 2025
- Data Analysis With Python** – IBM (Coursera) Feb 2025
- Deep Learning Specialization** – DeepLearning.AI (Coursera) June 2025

ACHIEVEMENTS

Winner – DataHack Hackathon – Dept. of CSE (Data Science), Vardhaman College of Engineering
Won the first prize in a college-level hackathon focused on solving real-world data-driven challenges.

Winner – CodeQuest 3.0 – JNTU

Secured 1st place in the university-level competitive coding contest conducted by JNTU.

Top 10 – CodeSprint 2K24 – Dept. of CSE, Vardhaman College of Engineering

Placed among the top 10 performers in an intra-college coding competition.