

SANTOSH REDDY YANAMALA

20cs01027@iitbbs.ac.in ◇ (+91) 8309273545 ◇ LinkedIn

EDUCATION

Indian Institute of Technology (IIT), Bhubaneswar Bachelors in Computer Science, (CGPA - 8.47/10)	July 2020 - May 2024
Sri Chaitanya Junior College 12th Standard, (CGPA - 10/10)	June 2018 - April 2020

TECHNICAL STRENGTHS

Languages	C/C++, Python, SQL, MATLAB , Java
Libraries	Tensorflow, Keras, Pytorch, scikit-Learn, OpenCV, NLTK, Numpy, Pandas
Web Development	HTML, CSS, Javascript, Angular, NodeJS , Django

EXPERIENCE

<u>Droom Technologies (Summer Internship)</u>	May 2023 - July 2023
--	----------------------

AI-Powered Eco-Inspection

- Worked as a Summer Intern at Droom Technologies, an e-commerce platform specializing in automotive buying and selling.
- Implemented an AI-based vehicle inspection system using computer vision and deep learning techniques to evaluate car health, pinpoint dents, and catalog all components, resulting in a 40% reduction in inspection time.
- Utilized diverse pre-trained models and voting ensembles to pinpoint the most effective combination, significantly enhancing model accuracy. Demonstrated data-driven optimization in machine learning.
- Leveraged Data Augmentation techniques and implemented the YOLO model to perform precise car part extraction and damage detection. Created APIs to expose the model and deployed it onto GCP.

PROJECTS

AI Chess (Github Code)

- Developed an AI based chess engine using Python, and reinforcement learning to compete with human players, enhancing the challenge and enjoyment of the game.
- Built a chess engine that employs a hybrid neural network architecture for feature extraction and move determination. Intermediate rewards, including position improvement, aid reinforcement learning alongside end-of-game outcomes

RSNA Abdominal Trauma Detection (Github Code)

- Created a two-stage medical image analysis pipeline with TimmSegModel for organ segmentation and an Organ Injury classifier. Utilized ResNet-18 and LSTM to predict 11 medical conditions per organ.
- Enhanced temporal understanding with organ-specific classification layers in the LSTM model, enabling precise classification of injuries for improved diagnosis and treatment planning.

ACHIEVEMENTS

- Ranked within the top 0.05% of all active coders globally on the Leetcode platform
- Ranked within the top 1% of the candidates that appeared for JEE Advanced 2020 .
- Secured Rank 192 in AP-EAMCET 2020 and a rank of 772 in JEE Mains 2020.
- Recipient of NTSE and KVPY Scholarships.