Contact

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Woxsen University, Telangana

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Certifications

- 2022-12 | Python for Data Science, AI & Development
- 2023-03| Data Analysis with Python
- 2023-03 | Data Visualization with Python
- 2023-07 | Machine Learning with Python (with Honors)

Technical Skills

- Python, SQL
- Machine Learning(Supervised & Unsupervised Learning, Feature Engineering, Hyperparameter Optimization)
- Deep Learning (TensorFlow, Pytorch)
- Data Visualization (Seaborn, Plotly, excel)
- NLP (Spacy, NLTK)
- LLMs (Finetuning, Prompt tuning, PEFT, LORA)

Patent & Research

- Transportable Building Structure for Transient Stay at Workplace
  Design No. : 365925-001
- A Novel Attention Informed Voting Ensemble Framework for Retinal Disease Classification - https://ieeexplore.ieee.org/document/10704188

Abhiram Polisetti

Profile Summary

Passionate about data science and artificial intelligence student. Possess a strong foundation in programming, and problem-solving. Committed to leveraging data-driven insights to drive innovation and solve complex challenges. Eager to apply academic knowledge and practical skills to real-world projects. Seeking opportunities to contribute to cutting-edge AI initiatives and make a meaningful impact.

Academics

Woxsen University | Hyderabad

2021 - 2025 | **B.Tech - Artificial Intelligence and Data Science**

Internships

***B*osch Limited | Bangalore | July-2024 - Aug-2024**

Data Scientist Intern

- Worked on the project "Automation of e-log report generation" which includes analytics and visualisation of data obtained from engine testbeds

***DeepFacts* | Hyderabad | Oct-2023 - April-2024**

AI/ML Intern

- Trained ML and DL models for predicting blood glucose, hemoglobin, blood pressure, and temperature from PPG/ECG, and reconstructing 12-lead ECG from single-lead ECG

AppStek | Hyderabad | Feb-2023 - July-2023

Research Intern

- Developed a visual inspection system to enhance image quality using OpenCV and advanced image processing techniques.
- Led a super-resolution initiative using deep learning models to upscale low-resolution images, resulting in a 30% improvement in image clarity and quality

Projects

Zero shot Object Detection Using Textual Description

- Developed a model integrating CLIP with YOLO to perform zero-shot object detection.
- The system recognizes objects using text descriptions, enabling a natural language interface for object detection tasks without requiring prior training on specific classes.

Retinal Disease Classification

- Built a Voting Ensemble model combining Vision Transformer and ResNet-101 for retinal disease classification.
- Achieved 87.6% accuracy on the MURED dataset with enhanced diagnostic precision.

UR3 - Robot Arm Digital Twin with Position Estimation

- Developed a digital twin model for the UR3 robotic arm, enabling real-time position estimation and simulation to optimize performance.