

SANJAY. R

AI Engineer | ML Engineer | Data Scientist | Data Analyst | Deep Learning Engineer

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Result-oriented AI Engineer with expertise in machine learning and data science. Proven track record of implementing advanced algorithms for object detection in SAR satellite images. Experienced in cross-functional collaboration and adept at developing and deploying machine learning models. Seeking to contribute technical leadership and innovation to Company's mission.

Education

B.Tech in Artificial Intelligence and Machine Learning

(2020-2024)

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

GPA- 8.2 (2023)

Related coursework: Machine Learning, Deep Learning Neural Networks, Supervised Learning, Satellite Image Processing, Data Analytics, and Computer vision, Data Modeling

Hurricane Prediction Using (AI & ML): AI and ML algorithms can analyze large amounts of data from multiple sources, including satellite images, weather stations, and ocean buoys, to make accurate predictions about the path, intensity, and impact of hurricanes. **(Research/Final Year Project)**

Hard Skills

- **Programming Languages:** Python, R, SQL(T-SQL), HTML, CSS
- **Tools :** IBM Watson, Amazon(AWS), Microsoft Azure, SPSS, Google Workspace
- **Libraries & Frameworks:** Polars | Pandas | NumPy | Scikit-learn | NLP | TensorFlow | PyTorch | YOLO | PyQt | Keras | OpenCV | Generative AI
- **OS (Operating System)– Linux , Mac - OS, Windows**
- **Python web framework – Flask, Django, StreamLit**
- **Skills – Team Work, Problem Solving, Deliver Hight-Quality Code, Strong Communication, Git, GitHub**

Experience

- ❖ **DRDO – Center for Artificial Intelligence and Robotics (Project Trainee)** **(7/2023 – 1/2024)**
Bengaluru, Karnataka
 - Work Closely with AI Scientist
 - Developed and implemented an advanced algorithm for object detection in SAR satellite images, resulting in a significant 15% improvement in accuracy while reducing false positives by 20%.
 - Leveraged R-CNN and YOLO models to detect objects in SAR satellite images, enhancing accuracy by 20% and reducing false positives by 15%.
 - Data Annotation / Labeling.
 - Creating Plugins for QGIS.
 - Integration of algorithm with HITACI Tool.
- ❖ **Machine Learning Engineer Intern | Technocolabs Software Inc.** **(7/2022 - 9/2022)**
 - Worked with cross functional teams.
 - Developed and deployed a machine learning model to predict the likelihood of a company being acquired, with 91.5% accuracy
 - Worked on integrations of ML models with other systems.
 - Building Machine Learning algorithms (Regression, Classification, K-NN, Decision Tree, XG Boost)

[Certification Link](#)
- ❖ **Community Volunteer | Climate Change AI** **(1/2022 – Present)**
 - Working on a research project focused on Hurricane Prediction using Artificial Intelligence and Machine Learning.
 - Collaborate with some of the brightest minds in the field and contribute to our shared mission of using AI for social good.

Specialization/ Certification

- AWS – Cloud Practitioner (Grade – C) [Certification Link](#)
- **Supervised Machine Learning: Regression and Classification** by DeepLearning.AI and Stanford University, offered through Coursera. [Certificate Link](#)
- **Social Networks – NPTEL ONLINE CERTIFICATION** [Certification Link](#)

Projects

- OBJECT DETECTION IN SAR SATELLITE IMAGES USING DEEP LEARNING .
- HURRICANE PREDICTION USING (AI&ML)
- ATS TRACKING LLM PROJECT WITH GOOGLE GEMINI PRO
- PREDICTING STARTUP'S ACQUISITION STATUS ([GitHub](#))
- SENTIMENT ANALYSIS USING NLP
- DISEASES DETECTION SYSTEM FOR LIVESTOCK ([GitHub](#))
- SOUND BITE HEARING SYSTEM FOR BLIND AND DEAF PEOPLE (**PATENT REGISTRATION**)

Languages

- ENGLISH
- MALAYALAM
- TAMIL