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Academics

Woxsen University | Hyderabad   CGPA-3.01/4.0
2021 - 2025 | **B.TECH - Data science and Artificial Intelligence**

Page junior college | Hyderabad, India   GPA-77%
2019 - 2021 | **Intermediate : MPC**

Tools & Technical Skills

- Python
- Hands on ML & DL models
- HTML, CSS, JavaScript (Basic)
- Generative AI Tools - LLms, chatbot development,langchain,pinecone,vectorDatabase,groq api
- Docker
- Cloud deployment
- AWS hands on - sagemaker,s3,ecr,ecs
- VM - putty
- Object detection - yolov9,yolov10
- Sentiment analysis

Certifications

- AWS Fundamentals-AWS
- Microsoft Azure Machine Learning
- AI for everyone
- Data Analysis and visualisation

Professional skills

- Critical thinking
- Interpersonal things
- Teamwork

Samanthula Thatwik Reddy

B.TECH - Data science and Artificial Intelligence

Objective

Enthusiastic engineer with experience in machine learning, deep learning, and Python. Interned at Tech Mahindra, specializing in generative AI and cloud deployment. Proficient in developing models for classification, detection, and prediction. Winner of competition and published a research paper. Eager to contribute as a Machine Learning Engineer and AI engineer.

Internship Experience

Tech Mahindra,Hyd(remote)   March-2024   July-2024
Gen AI Use case

- Developed a chatbot and analyzer for CBC medical reports using **LLms(llama2),vectorDB,sentencetransformers,langchain,streamlit**

ClaimScoring risk prediction model

- Trained and developed a ML model on claimscoring risk prediction for vehicle insurance claims and deployed in AWS sagemaker using **Aws sagemaker,S3,ECR, Docker image and container,Putty,VM,Python,ML Models-   XGboost,random forest , fastapi,flask**

Flyers soft , chennai   August-2024   Dec-2024
Chatbot development

- Developed a chatbot for company website based on pdf using **LLms(llama3.1),vectorDB,sentencetransformers,langchain,streamlit, Groq api**

Projects

Smart Sprinkler system

- Smart sprinkler systems are a combination of an advanced technology of sprinklers with nozzles that improve coverage and irrigation controllers that are watering and water conservation systems that monitor moisture-related conditions on your property and automatically adjust watering to optimal levels.

TownGuide - a tour website

- Town guide is a simple user friendly website where a tourist can acces the details of the town like hotels available with booking option , visiting or tourist places in the town , restaurants available with menu , entertainment in the town , transport options available.

Lung cancer classification

- Developed a lung cancer classification model using CNN architectures (VGG19, DenseNet, ResNet) for four classes, achieving a high accuracy of 92.36%.

Car damage detection and segmentation

- Developed a detection and segmentation for car damages with the addition llms and RAG model for Q & A on the detected images and automatic report generation

Aspect based sentiment analysis

- Built a RAG based chatbot for analysing reviews and sentiments using LLM's.
- Initialised a tweet scrapper for retrieving tweets and analysing them i.e generating summaries and insights using LLama 3.1 70B

Awards and Achievements

- Won R1Codefiesta - 2023 conducted by Rungta college of engineering , chattisgarh.
- Published a Conference paper in IEEE - Ecosprout: Machine Learning powered smart sprinkler system.