

ASHOK KUMAR PALIVELA

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EXPERIENCE

Machine Learning Intern | Strawhats Labs

May 2022 – present | Internship | Remote

Project: Question Answering System for Web3 protocols

- Develops NLP models for unstructured textual data.
- Built Q&A and text Summarization application using Haystack transformers

AI – ML Intern | Eduskills Foundation

March 2022 – May 2022 | Internship | Remote

EDUCATION

B.TECH | RGUKT – NUZVID, AP

Computer Science & Engineering

Grade: 80% | August 2019 – present

PUC | RGUKT – NUZVID, AP

Mathematics • Physics • Chemistry

Grade: 91% | August 2017 – May 2019

Class X | MPL. HIGH SCHOOL, RATNAMPETA

Grade: 100% | June 2016 – March 2017

SKILLS

- Machine Learning • Deep Learning • Data Analysis
- Natural Language Processing • Computer Vision
- Time Series Forecasting • Cloud Computing
- Web Scraping • Data Structures & Algorithms
- Software Development (Backend)

Programming Languages: Python, Java, C++

DBMS: SQLite, MySQL

Cloud: Microsoft Azure, AWS, Heroku

Libraries: Numpy, Pandas, Matplotlib, Seaborn, BeautifulSoup, Scikit-Learn, XGBoost, TensorFlow, Transformers, Haystack, OpenCV, NLTK, Gensim, Flask, Streamlit, Bootstrap

Tools: Linux, VS code, Jupyter Notebook, Git, Docker

COURSES & CERTIFICATIONS

- Machine Learning by Stanford University - Coursera
- Deep Learning Specialization – Coursera
- TensorFlow Developer Specialization - Coursera
- Data Structures & Algorithms - Udemy
- JAVA Programming - Beginner to Master – Udemy
- Machine Learning Foundations – AWS Academy
- Python skills assessment test – HackerRank

PROJECTS

AgriWheel - Smart and Sustainable Agriculture using FPGA

Description: A digital assistant which helps farmers to monitor their crop remotely.

It includes:-

- Crop recommendation based on weather and soil conditions.
- Disease prediction using plant's leaf and fertilizer suggestion.
- Weed detection in early stage of the crop.
- Fertilizer recommendation based on soil parameters (N, P, K).
- Automatic Irrigation System based on the crop requirement.
- Continuous Crop monitoring and a responsive website for farmers to display and use all the above mentioned tasks.

Role Played: Machine Learning Engineer

- Data acquisition and ML model development
- Deployed XGBoost, CNN, yolov5 models as APIs.
- Cloud connectivity and database management

Tech Stack: DE10-Nano board, Analog sensors, python3, Microsoft Azure, tensorflow, yolov5, docker, vs code, colab, flask, html, css

Movie Recommendation System

- A web app to recommend movies which are similar to the movie searched by the user.
- Content based filtering and similarity scores are used for recommendation.
- 5k+ movies info from tmdb api are used for this application.

Early Identification of Stroke in a Patient

- A web app to predict the chances of getting a stroke by a patient based on other health factors.
- The model was trained and validated on 5100+ patient health records. Achieved True Positive rate of 0.77.

Sentiment Classifier App

- Sentiment Analysis of Amazon fine food reviews
- A web application to predict whether the given amazon's fine food review is positive or negative.
- Analyzed nearly 500k reviews. Achieved test accuracy of 0.89.

ACHIEVEMENTS

- Finalist – DVCon India Hackathon by Analog Devices 2022
- Grand Finalist (5th/260) – InnovateFPGA Design Contest 2022
- 37th/1926 – Wipro Sustainability ML Challenge 2022
- 50th/1724 - Deloitte ML Challenge 2021
- 2nd prize - NLP Paper Presentation Cryptera 2021
- 11th/868 – Segmind Grand AI Challenge 2021
- 1st prize – Technical Paper Presentation Invincy 2019
- Kaggle (Expert) • MachineHack (Master)