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Summary

AI/ML Application Engineer hands on experience in Machine Learning, Data science, Data Visualization, Neural Networks, Computer Vision.

SKILLS

Machine Learning: Classification, Regression, K Means Clustering, PCA

Deep Learning : Tensor flow, keras ,image classification

Programming Languages: Python, C, Cpp, java

Cloud: AWS, Azure

Statistical method: Predictive analysis, Hypothesis testing

Database Language: SQL

Data Visualization Tool: Power Bi

Web Development: Html, css

Experience:

Working in Hanyaa auto technologies as Junior AI/ML application Engineer

Projects

POWER BI PROJECT FOR SALES TEAM FOR DECISION SUPPORT

- To Unlock sales insights that are not visible before for sales team for decision support & automate them to reduced manual time spent in data gathering
- End Result is An automated dashboard providing quick and latest sales insight in order to support data driven decision making

IMAGE CLASSIFICATION OF CELEBRETIES USING MACHINE LEARNING

- Use opencv library for face and eyes detection ,data cleaning using opencv face detection and feature engineering
- Data modelling using svm ,logistic regression and random forest, model fit tuning using grid search
- Export model to a file and write python flask server around it

REAL ESTATE PRICE PREDICTION PROJECT

- Build a model using sklearn and linear regression using bangalore home price dataset from kaggle
- During model building covered almost all data science concepts such as data load,cleaning ,outlier detection and removal ,feature engineering ,dimensionality reduction, grid search hyper parameter tuning.

POTATO DISEASE CLASSIFICATION USING CNN

- Farmer every year face economic loss and crop waste due to various diseases in potato plants to avoid this a model is build using image classification and CNN

PROJECT ON DEEP NEURAL NETWORKS

- The project was accomplished by delivering 2 sub-projects. Part 1 deploys a neural network to build a repressor & classifier respectively for a communications equipment manufacturer. The model predicts the equipment's signal quality using various parameters from its products, which is responsible for emitting informative signals.
- Part 2 delivers an image classifier, which can classify numbers from the photographs captured at street level using a Neural Network

Multi-Traffic Scene Perception with SVM Algorithm and Django

- Develop a real-time multi-traffic scene perception system using the Support Vector Machine (SVM) algorithm integrated with the Django web framework. This system aims to enhance safety and efficiency in transportation and autonomous driving applications by accurately classifying and interpreting complex traffic scenarios. The integration with Django allows for a user-friendly web interface to access and visualize the traffic scene analysis results.

Key objectives

Data: Collect, preprocess, and annotate traffic scene data.

SVM Model: Develop an SVM-based classification model.

Training: Train the SVM model with the preprocessed dataset.

Django Interface: Create a user-friendly web interface using Django.

Integration: Integrate the SVM model into the Django framework.

Real-time Processing: Optimize for real-time traffic scene analysis.

Evaluation: Assess model performance and robustness.

Safety Measures: Implement safety mechanisms.

Continuous Learning: Enable model retraining for evolving conditions.

User Access: Allow users to upload data and visualize results through the web interface.

Crop Yield Prediction using machine learning algorithms

Develop a machine learning model using decision trees to predict crop yields.

This project aims to replace traditional, time-consuming methods with an accurate and interpretable model that considers factors like weather, soil, and historical data. The goal is to assist farmers, policymakers, and stakeholders in making informed decisions for more efficient agriculture.

Key Objectives:

Collect and preprocess relevant data.

Build an accurate decision tree-based model.

Interpret the model for insights into yield-influencing factors.

Evaluate and deploy the model for practical use.

Implement monitoring and maintenance procedures for ongoing accuracy.

Monthly rainfall prediction using Wave length analysis

Develop a predictive model using the Random forest algorithm to forecast monthly rainfall in a specific geographical region. Accurate rainfall predictions are vital for various sectors such as agriculture, water resource management, disaster preparedness, and urban planning. This project aims to leverage machine learning to provide reliable monthly rainfall forecasts,

CERTIFICATIONS

- E certification on Machine Learning with python by udemy
- E certification on android development by verzeo
- E certification on java by nasscom
- E certification on web development By oasis infobyte

EDUCATION

Great lakes institute of management in collaboration with the University of Texas, Austin

(POSTGRADUATE PROGRAM IN DATA SCIENCE AI/ML)

2023-2024

AURORA'S TECHNOLOGICAL AND REASEARCH INSTITUTE JNTUH AFFILIATED,

Hyderabad – Bachelors in computer science engineering

2019-2023