

Uthsavi YP

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Post graduate with a passion for data science and a strong foundation in Statistical Analysis, Machine Learning, Deep Learning and programming. Seeking opportunities where I can utilize my analytical and technical skills and passion for data-driven insights to solve real-world problems.

Education

Course	Percentage	Year	Institution
M.Sc	6.8CGPA	2021	Manasagangothri,University of Mysore
B.Sc	5.6CGPA	2019	Kuvempu University

Skills

Programming	Python ,NumPy, Pandas, SciPy, Scikit-learn, TensorFlow, Keras
Mathematics	Algebra, Probability, Statistics, Calculus, Matrices
Machine Learning	Regression, Classification, Clustering, NLP, Feature engineering
Deep Learning	ANNs, CNNs, RNNs, Natural language Processing
Visualization	Jupyter Notebook, Matplotlib, Seaborn, Exploratory data analysis (EDA)
Database	MySQL
Cloud Deployment	AWS EC2, GCP
Soft Skills	Excellent verbal and written communication skills, Problem solving

Projects

Real Estate Price Prediction

Developed a real estate price prediction model. Used Sklearn and applied linear regression . Built a Python flask server and deployed with a user-friendly HTML/CSS/JavaScript based website.

Techniques/tools: **Python, Jupyter Notebook, Visual Studio Code, PyCharm, PythonFlask, nginx**

Data Cleaning: **Numpy, Pandas**. Data Visualization: **Matplotlib**

Exploratory data analysis (EDA):**FeatureEngineering, Dimensionality Reduction**

Model Building: **Sklearn, GridSearchCV, K Fold cross validation**. Deployment:**Amazon EC2**

Image Classification

Image classification using OpenCV for face/eye detection, performed data cleaning, feature engineering, SVM, logistic regression, random forest modeling, GridSearchCV for fine-tuning, model exporting, Python Flask Server development and UI creation (HTML/CSS/JavaScript/JQuery).

Techniques: **OpenCV, Feature Engineering using Wavelet Transforms, Python Flask Server**

Model building: **SVM, Logistic Regression, Random Forest, Fine tuning using GridSearchCV**

Agricultural Disease Detector

Developed a model using CNN-based image classification of plant diseases in agricultural used tensorflow, CNN, data augmentation for model buildings, Implemented TensorFlow Serving, FastAPI and Quantization for efficient backend operations. Utilized React JS/Native for user-friendly frontend and deployed on GCP for scalability.

Techniques/Technology: Model Building: **CNN, Tensorflow, Data augmentation, tf dataset**

Backend server and MLops: **tf serving, FastAPI**

Model optimization: **Quantization, Tensorflow lite**

Frontend and deployment: **ReactJS, ReactNative, Google Cloud Platform**

Dialog Flow-Powered Food Delivery Chatbot Development (ongoing)

Developed an end-to-end **chatbot** for food delivery system in Dialog Flow. Project highlights include mastering Dialog Flow essentials (**intents, entities, contexts**) created a **python, fastapi** backend and integrated it with a **Mysql** database.

Activities

Listening to PodCasts