Purushotham BN

Machine Learning Engineer
purushotham.bn@yahoo.com | +91 9980002899 | Bengaluru
GitHub | **Linkedin**

Education

Sridevi Institute of Engineering and Technology Tumakuru
Mechanical Engineering Bachelors

Experience

Venktech Valuations | Data Analyst Bengaluru | July 2023 - Present

Georeferenced Bengaluru CDP Mapping with Location Detection Feb 2024 - Present

Processed high-resolution images using GIMP and georeferenced Bengaluru City Development Plan (CDP) data with QGIS, aligning it with Google basemaps. Integrated a coordinate detection plugin to efficiently pinpoint locations by latitude and longitude, enhancing spatial analysis and reducing time spent on manual searches.

Power BI Insights: Performance Tracking with Google Sheets September 2023 - Jan 2024

Enhance decision-making by using Power BI to create visually compelling, data-driven reports. Preprocess data in Google Sheets for accuracy and efficiency. Develop comprehensive reports in Power BI to track key metrics like billings, profits, and sales, providing valuable business insights for informed strategic planning.

Skills

Programming Languages:	Python
Libraries/Frameworks:	scikit-learn, seaborn, Pandas, Flask, TensorFlow, NumPy, NLTK
Tools / Platforms:	Git, VS code, DialogFlow, Power BI, Google Sheets
Databases:	Sqlite3, SQL

Projects / Open-Source

Infotainment Complaint System with Chatbot | Link *Python, TensorFlow, Dialogflow, scikit-learn, AWS EC 2, sqlite3, Flask*

Developed a Flask-based web application for infotainment system complaint registration with image verification using TensorFlow, storing details in an SQLite database, and deployed on AWS EC2. Integrated Google Dialog flow and extended functionality via a Telegram bot (@infotainment*service*bot) for user interactions.

Voice-Activated Infotainment Complaint System | Link *Python, SQLite, Flask, gTTS (Google Text-to-Speech), SpeechRecognition, pydub*

Developed a voice-controlled system using Python, Flask, and various libraries for speech recognition and text-to-speech conversion. Users can file complaints verbally, validate input, and store data in a SQLite database. Responses are provided through voice and text.

Flask-Based Machine Learning, Deep Learning, and NLP Web Applications | Link *Python, Data Cleaning, Data Preprocessing, tensorflow, scikit-learn, Flask,*

1)Implemented a text summarization web app providing extractive summaries with NLP techniques.
2)Built a deep learning-based potato disease image classifier to detect early blight, late blight, and healthy plants.
3)Developed an SMS spam classification web app using machine learning and NLTK for classification model.
4)Created a Flask app for Bengaluru house price prediction using a linear regression model.