JAYA GAYATRI VUKKUM

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EDUCATION

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN   Bhimavaram, India
Bachelor of Technology; Major in AI and Data Science; CGPA: 8.65/10.0   **Dec 2021 - May 2025**
Coursework: Data Science, DSA, Data Analytics, Machine Learning, Deep Learning, AI/ML Fundamentals, NLP, RDBMS.

INTERNSHIP EXPERIENCE

SABUDH FOUNDATIONS   Remote
Data Science Intern   **Jan 2024 – May 2024**
- Research & Assisted a team to evaluate, enhance ML models, deployment using Flask, Streamlit Frameworks.
- Analyzed and preprocessed unstructured data from 8+ sources, contributing to the development of scalable ML solutions.

UNIVERSITY PROJECTS

REMOTE SENSING IMAGE ANALYSIS   **Dec 2024**
- Utilized python to analyze Data DIOR and TGRS and Performed dataset collection, image processing, took 3 classes from DIOR and 13 classes from TGRS dataset and used Flask for deployment.
- Applied and implemented DL algorithms, RAST YOLO, YOLOv5, YOLOv3, YOLOv5x6, YOLOv8, RetinaNet, Faster R-CNN & compared them to get the best model among them YOLOv5x6 with mAP of 94.4% for DIOR and 85% for TGRS.

IPL WORLD CUP CRICKET SCORE PREDICTOR (Link)   **Nov 2024**
- Performed data preprocessing, data extraction, encoding categorical data, feature extraction etc.,
- Applied and implemented XGBoost, Random Forest for regression to produce a final model deployment with streamlit.

AMERICAN EXPRESS DATA ANALYSIS (Link)   **Nov 2024**
- Utilized python to analyze Data and Performed data preprocessing, encoding categorical data, feature scaling, etc.,
- Applied and implemented Deep learning using ANN to produce a final model with an accuracy of 85% and lift of 34%

ZOMATO REVIEW ANALYSIS (Link)   **Oct 2024**
- Performed data cleaning and text analysis to successfully identified the major complaints through sentimental analysis.
- Utilized Regex, Bag of Words, and Naïve Bayes model for review classification, achieving 79% accuracy using NLP.

REAL-TIME RAPIDO USER RIDE ANALYSIS (Link)   **Feb 2024**
- Developed Bike Ride Prediction classification model & debugged in a team of 4-persons using Python, JavaScript, ML, EDA.
- Enabled users to be predict the demand of rides based on 50+ data points; awarded most innovative project in Project Expo.

SKILLS SUMMARY

Languages: Python, SQL.
Frameworks & Libraries: NumPy, Pandas, Scikit-Learn, Tensorflow, PyTorch, Matplotlib.
Platforms: Jupyter Notebook (Anaconda), Google Colab, PyCharm, MySQL.
Additional Activities: Active Data Science & ML Contributor in Data Science Contests, Kaggle, ML Project Expo.

CERTIFICATIONS & TRAININGS

DEEP LEARNING & AI IMMERSION (IIT Dharawad)   **Aug 2024**
- Built a strong foundation in deep learning, understanding the data management, contributes to successful data analysis.

DATA SCIENCE, MACHIN LEARNING (Sabudh Foundations)   **Jun 2024**
- Explored a range of tools and applications, learning how to leverage them for streamlining and optimizing data analysis, which significantly improved my efficiency, accuracy from data collection to interpretation with State-of-the-art techniques.

AMAZON ML SUMMER SCHOOL (Amazon)   **Oct 2023**
- Mastered the ML topics Supervised Learning, unsupervised Learning, Neural Networks, Dimensionality Reduction, Object Detection, Probabilistic Graphical Models, Sequential learning, Reinforcement Learning with State-of-the-art Techniques.