Panuganti Bhanu

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Professional Summary

B.Tech student in Artificial Intelligence and Data Science at IIIT Sri City with hands-on experience in machine learning, deep learning and game development. Proficient in Python and key libraries such as Scikit-learn and TensorFlow. Built real-world projects including a brain tumor classification app, a bike rental demand prediction app. Passionate about solving real-world problems through data-driven and creative approaches.

Education

B.Tech in Artificial Intelligence and Data Science 2023 – 2027
Indian Institute of Information Technology, Sri City
CGPA: 8.00

Projects

Brain Tumor Classification Web App Github link

- Developed a hybrid ML model using EfficientNetB0 features for classifying brain MRI scans with high accuracy (98%)
- Built and tuned multiple classifiers (KNN, SVM, Random Forest, Voting Ensemble) and evaluated performance using precision, recall, F1-score and confusion matrices.
- Deployed an interactive Streamlit web app for real-time MRI tumor classification with confidence scores and tumor descriptions.
- Tools Used: Python, Scikit-learn, Tensorflow, Streamlit

Seoul Bike Demand Prediction Web App Github link

- Built an XGBoost machine learning model to predict hourly bike rental demand, achieving an adjusted R^2 of 0.954.
- Deployed the model using Streamlit, enabling real-time bike rental demand forecasting through a user-friendly web interface.
- Tools used: Python, Pandas, NumPy, Scikit-learn, XGBoost, Streamlit.

Achievements

Amazon ML Summer School 2025 August 2025

- Selected as one of the top students nationwide for the competitive Amazon ML Summer School program.
- Gained hands-on exposure to advanced ML concepts including supervised learning, deep learning and generative AI.

British Airways Data Science Job Simulation on Forage June 2025

- Built a lounge eligibility lookup table for British Airways to forecast demand and optimize lounge planning using tier-wise passenger analysis across key flight groupings.
- Built a predictive model to identify key factors influencing customer booking behavior using real-world airline data.

Wizard of OZ – Data Science Challenge March 2025
Runner-Up · Abhisarga Fest, IIIT Sri City

- Secured 2nd place in a 5-round team competition featuring quizzes, negative marking buzzer rounds, point-stake gambling, and visual guessing challenges.

Technologies

Languages: C, Python, R

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Streamlit

Developer tools: Git, Visual Studio Code, Unity