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 and an interactive game inspired by Indian mythology. 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

Extracurricular activities

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, buzzer rounds with negative marking, point-stake gambling, and visual guessing challenges

Global Game Jam 2025 January 2025
IIIT Sri City · Theme: Bubble

- Developed Bubble Brawl, a 3D two-player action game where players compete using shared keyboard controls
- Implemented health systems, collectible bubbles, power-ups, and player abilities
- Delivered a playable, theme-aligned game in 48 hours as part of a collaborative team

Projects

Brain Tumor Classification Web App

- Built a Streamlit app to classify brain MRI scans into four tumor types using a CNN and an ensemble of KNN, SVM, Decision Tree, and Random Forest models
- Applied Improved Sparrow Search Algorithm (ISSA) for feature selection, reducing dimensions from 1302 to 658 while maintaining high accuracy
- Tools Used: Python, Scikit-learn, Tensorflow, Streamlit

Seoul Bike Rental Prediction Web App

- Built a machine learning model (XGBoost) to predict hourly bike rental demand with an adjusted R^2 of 0.954
- Deployed the model using Flask, enabling real-time rental demand forecasting via a user-friendly web interface
- Tools Used: Python, Flask, Scikit-learn, XGBoost, Pandas, NumPy, HTML/CSS

Technologies

Languages: Python, R, Java, C, C#, SQL

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

Developer tools: Jupyter Notebook, Visual Studio Code, Unity, SQL Workbench