# Patil Adarsh Reddy

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## Education

- **Indian Institute of Information Technology Sri City** — Chitthor, India
  *Bachelor of Technology - Artificial intelligence and Data science; GPA: 8.75* — *Aug 2023 - May 2027*

## Skills Summary

- **Languages**: Python, C, SQL
- **Frameworks**: Scikit Learn, Tensorflow, Keras
- **Tools**: GIT, ApacheXamp(for SQL),Jupyter Notebook
- **Soft Skills**: Event Management, Public Speaking, Time Management

## Volunteer Experience

- **Connexion IOT Club - IIIT Sri City** — University
  *Data Science Wing Member* — *Jan 2024 - Jun 2024*
  - **Actively contributed to a number plate detection project in a club setting, where I played a key role in data collection and project development. Spearheaded the gathering, labeling, and organization of a large dataset of vehicle images, ensuring data diversity and quality for accurate machine learning training. Collaborated with the project team to brainstorm and refine project concepts, enhancing the approach to image processing and detection algorithms.**:

## Projects

- **Air Pollution and Land Cover Correlation (Ongoing Project under Dr. Sreeja SR and Ms. Unnati Agrawal)**: This project involves analyzing the correlation between air pollution levels, changes in air quality, and shifts in land cover. Data has been collected from government websites and online open-source imagery. The study aims to understand how land-use changes, such as urbanization or deforestation, influence air pollution. The collected data is in the phase of cleaning and preprocessing and then will be utilised further in the project to find the correlation and changes in air pollution levels and land cover over the years.
- **FutureFlow - Prediction of Future Traffic Intensity and Energy Consumption by Futuristic Vehicles (ML Regression and Classification using multiple models)** : In my "Future Flow" project, I explored both regression and classification tasks using scikit-learn implementations of various machine learning models like SVM, Decision Tree, Random Forest, Logistic Regression.The primary objective was to delve into the implementation of the models and gain a thorough understanding of their underlying intuition.
- **Car Price Predictor Using ANN**: Developed a predictive model for estimating car purchase amounts using an Artificial Neural Network (ANN) implemented with TensorFlow. The model was trained on a dataset that included features such as country, gender, age, annual salary, credit card debt, and net worth. This project successfully demonstrated the ability to predict car purchase amounts based on demographic and financial data, showcasing strong model performance and optimization.

## Courses and Certifications

- **Machine Learning A-Z** — Udemy
  *Intuitions and Implementations of various ML Algorithms for Regression and Clasification* — *Nov 2023 - Jan 2024*
- **Deep Learning A-Z** — Udemy
  *ANN,CNN,RNN,LSTM,GRU,Optimisers,Actv'n & Loss Functions,Data Cleaning & Preprocessing* — *May 2024*
- **TensorFlow for Deep Learning Bootcamp** — Udemy
  *Implementations of Neural Networks and Deep Learning Architectures* — *Jul 2024 - Ongoing*