

## About me

I am an **AI enthusiast** with a strong background in **Python**, **machine learning**, and **deep learning**. I have hands-on experience developing intelligent systems and enjoy **solving complex problems** by turning data into useful insights. I work well in **team environments** and am always eager to learn more in the fast-growing AI and DL fields. My projects focus on **model optimization**, **data exploration**, and **neural networks**. I believe AI has the power to change industries and am excited to contribute to **meaningful projects**. Outside of work, I enjoy **coding challenges** and connecting with the tech community.

## Technical Stack

**Programming Languages:** Proficient in Python, with experience in libraries such as NumPy, Pandas, and Matplotlib.

**Machine Learning:** Familiarity with machine learning algorithms and frameworks, including Scikit-learn and TensorFlow.

**Data Analysis:** Experience in data cleaning, preprocessing, and exploratory data analysis (EDA) using tools like Pandas and Seaborn.

**Artificial Intelligence:** Knowledge of AI concepts and techniques, including neural networks and deep learning.

**Web Development:** Basic understanding of HTML, CSS

**Version Control:** Proficient in using Git for version control and collaboration on projects.

**Data Visualization:** Skills in creating visualizations to effectively communicate insights using tools like Matplotlib and Tableau.

**Databases:** Experience with SQL for data querying and manipulation

## Education

**Python AI**  
Qtree Technologies,  
Gandhipuram,  
Coimbatore - 641012

**KSR IET College - 73%**  
K.S.R.Kalvi Nagar, Tiruchengode -  
637 215

**HSC - 60%**  
**G.H.S.School**  
Mylambadi,  
Bhavani,  
Erode - 638 314

**SSLC - 80%**  
**G.H.S.School**  
Mylambadi,  
Bhavani,  
Erode - 638 314

## Projects

### Python Mini Projects

**BMI Calculator & Health Stats Visualizer**  
Developed a user-friendly application that calculates BMI and visualizes health statistics, enabling users to track their BMI over time.

**Virat Kohli Quiz Game**  
Created an interactive quiz game to test users' knowledge about cricketer Virat Kohli through engaging multiple-choice questions. The game tracks scores and provides feedback.

**Weather App**  
Built a weather application that provides real-time updates based on user-entered locations, displaying current conditions, forecasts, and additional climate data.

### ML Projects

**Iris Flower Classification**  
Build a model to classify iris flowers into different species based on petal and sepal dimensions. This project demonstrates basic classification techniques like KNN and Decision Trees.

**House Price Prediction**  
Predict house prices using features like size, location, and number of rooms. Learn linear regression and feature engineering in this practical project

**Customer Segmentation with K-Means**  
Group customers into segments based on their purchasing behavior using unsupervised learning and K-Means clustering.

### DL Projects

**Image Classification (CIFAR-10)**  
Build a CNN model to classify images into 10 categories, including airplanes, cars, and animals from the CIFAR-10 dataset.

**Sentiment Analysis with RNN**  
Analyze the sentiment of movie reviews (positive/negative) using Recurrent Neural Networks (RNN) or LSTM-based models.

**Predicting Loan Approval with Artificial Neural Networks (ANN)**  
Develop an Artificial Neural Network to predict loan approval based on features like income, credit score, and employment history. This project helps understand feedforward neural networks and classification techniques.