

# SAIF AHMED N

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Passionate and motivated **Artificial Intelligence** And **Data Science** student with a strong interest in Artificial Intelligence and Machine Learning. Eager to apply theoretical knowledge through hands-on projects, internships, and research in real-world AI applications. Seeking opportunities to contribute to impactful AI/ML projects and grow as an **AI Engineer**. My aim is to leverage predictive analytics and **deep learning** techniques to create innovative solutions that enhance user experience and optimize business processes.

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## EDUCATION

**Prathyusha Engineering College— Tiruvallur, Tamil Nadu**  
B.Tech in Artificial Intelligence & Data Science  
*Expected Graduation: May 2026*  
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Deep Learning, Statistics & Applications

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## PROJECTS

### 1. Traffic Sign Recognition System | CNN, Python

- Built a deep CNN model to classify traffic signs using the German Traffic Sign Recognition Benchmark (GTSRB) dataset.
- Preprocessed and normalized image data using TensorFlow/Keras utilities and performed one-hot encoding on labels.
- Achieved high test accuracy and saved the trained model for deployment and real-time inference.

### 2. House Price Prediction API | FastAPI, Scikit-learn, Python, Docker

- Trained a regression model to predict house prices using location, size, and amenities data.
- Deployed the model with FastAPI, creating REST endpoints for real-time predictions and validation.
- Containerized the application using Docker and served it via Uvicorn for local and cloud deployment.

### 3. Walmart Sales Analysis Project | SQL, Python, Pandas, Matplotlib

- Queried and extracted multi-store sales data from relational databases using complex SQL joins and filters.
  - Analyzed sales trends, seasonal patterns, and department-level performance using Pandas and visualized results with Matplotlib.
  - Identified business insights such as peak revenue periods, underperforming stores, and holiday sales impacts.
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## INTERNSHIP / TRAINING

Python and Machine Learning Internship  
Developed a CAPTCHA solver using OpenCV and KNN with preprocessing techniques like grayscale conversion and contour-based segmentation. This project enhanced my expertise in computer vision and language processing.

Achieved accurate text recognition by converting segmented characters into feature vectors and classifying them with a KNN model, while ensuring **data integrity** throughout.

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## TECHNICAL SKILLS

**Languages & Tools:** Python, SQL, Git, VS Code, Jupyter Notebook, Google Colab  
**Libraries & Frameworks:** TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, FastAPI, Pydantic, LLM, LangChain, Docker  
**Core Competencies:** CNNs, Model Deployment, REST API Development, Docker, Data Preprocessing, Feature Engineering, Hyperparameter Tuning