# Sashi Preetham

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**Goals and Objectives** — Develop and optimize scalable backend systems for high-performance applications. Enhance frontend development skills to create responsive and user-friendly interfaces. Apply machine learning techniques to solve real-world problems and improve automation. Strengthen problem-solving abilities through data structures and algorithms (DSA). Contribute to open-source projects and stay updated with the latest technologies. Pursue continuous learning to become a well-rounded full-stack AI-driven developer.

## Skills

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| **Cloud** | GCP, AWS |
| **Languages** | Python,C,C++,Java |
| **OS** | Ubuntu,CentOS |
| **Frontend Web** | HTML,CSS,Javascript, Bootstrap |
| **Backend Web** | Fastapi,Django |
| **Database** | Mysql,Postgresql,Sqllite |
| **Frameworks** | Postman,SqlAlchemy |
| **Python packages** | Numpys,pandas,tensor-flow,scikit-learn |
| **Machine Learning** | Linear Regression,Logistic Regression |

## Cerfications and Achievements

**Machine Learning Certification** **May 2024 – June 2024**
*Standford University*
*DSA Enthusiasts and Competitive Programmer,Solved More than 250 problems in different platforms(Codechef,Leetcode)*
*Solved nearly 200 problems in leetcode and recieved batches*
*Different projects on both frontend and backend technologies and also machine learning*

## Education

**Engineering at IIIT Kottayam** **year:2022-2026, CGPA:8.7**
*Btech ,Computer Science*

**12th class** **year:2020-2022,96.2 Percent**

**10th class** **98 Percent**

## Projects

**Car Price Predictor** **July 2024**
github.com/Sashi1174/Car-Price-Predictor

- Developed an **ML model** to predict used car prices based on factors like **brand, model, year, mileage, fuel type, and transmission**.
- Preprocessed data, handled missing values, and applied **feature engineering** techniques.
- Implemented **Linear Regression, Random Forest, and XGBoost**, optimizing performance using **$R^2$ score and RMSE**.
- Built and deployed a **Flask-based web app** for real-time predictions.

**Technologies:** Python, Pandas, NumPy, Scikit-Learn, Flask, Matplotlib, Seaborn.

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**Pizza Delivery API (FastAPI)** **Jan 2025**
github.com/Sashi1174/example-fastapi

- Developed a **RESTful API** for a pizza delivery system using **FastAPI and Python**.
- Implemented **user authentication, order management, and real-time tracking**.
- Designed a **SQL database** for orders, menus, and customer details.
- Integrated **JWT authentication** for security and used **Flask-SQLAlchemy** for database operations.

**Technologies:** Python, FastAPI, SQLAlchemy, JWT, PostgreSQL, REST API, Docker.

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**Tic-Tac-Toe Game** **Dec 2023**
github.com/Sashi1174/Tic-Tac-Toe

- Developed an **interactive Tic-Tac-Toe game** using **HTML, CSS, and JavaScript** with a responsive UI.
- Implemented **player vs. player** and **player vs. AI (minimax algorithm)** modes.
- Added **real-time win detection, a restart feature, and dynamic styling** for an enhanced user experience.

**Technologies:** HTML, CSS, JavaScript, DOM Manipulation.