

Conversational Used Car Price Predictor

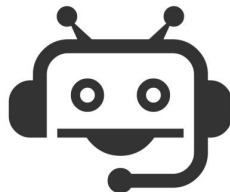
CS702 - Computing Lab

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Introduction

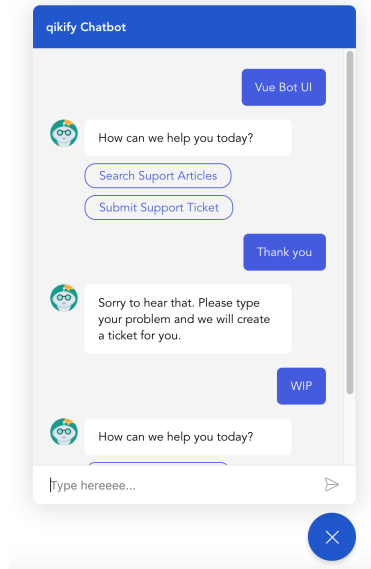
- Conversational interfaces enhance interaction with technology.
- The used car market is growing, and accurate price evaluation can be challenging.
- Machine learning helps predict car prices by analyzing various parameters.
- Goal: Develop a conversational interface to predict used car prices.



CHATBOT

Problem Statement and Objectives

- Predicting used car prices requires multiple parameters such as manufacturer, model, year, mileage, etc.
- Traditional methods are often less interactive and user-friendly.
- This project aims to develop a chatbot integrated with a price prediction model for a more intuitive user experience.



Literature Survey

S.No.	Title	Year	Methodology
1	Prediction of Used Car Prices Using Artificial Neural Networks	2022	Artificial Neural Networks (ANN) for price prediction
2	Conversational AI Unleashed: A Comprehensive Review of NLP-Powered Chatbot Platforms	2023	NLP-powered chatbot platform for natural language interaction
3	Predicting the Sale Price of Pre-Owned Vehicles with the Ensemble ML Model	2023	Ensemble methods using Random Forest for price prediction
4	Challenges and Solutions in Conversational AI	2017	End-to-end conversational AI architecture
5	Improving User Experience in Conversational Systems	2018	Enhancing chatbot systems with personalized responses

Proposed Methodology

- Conduct requirement analysis to identify user needs and key functionalities.
- Design the dialogue flow, defining user intents and entities for intuitive interactions.
- Implement Natural Language Processing (NLP) libraries to process user input.
- Generate appropriate responses based on user queries.