“AI-Based Chatbot Price Negotiator ”

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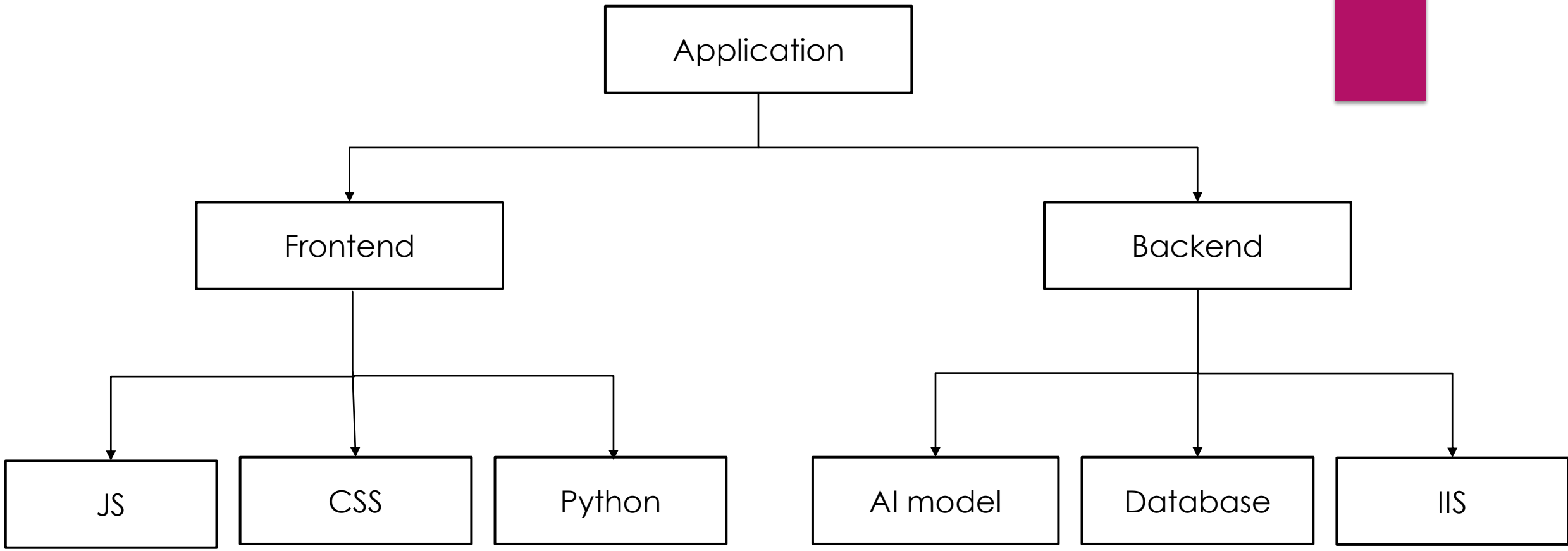
Project Definition and overview.

- The goal of the AI-Based Chatbot Price Negotiator project is to create a chatbot system that can help users negotiate pricing for goods and services in both online and offline transactions.
- This chatbot will negotiate on behalf of users using natural language processing (NLP) and machine learning techniques, leading to favourable pricing outcomes.

Project Functionalities and stages.

- The first stage is data collection, in which the chatbot collects information about the product or service being discussed.
- Data includes: price range, features, and any discounts or promotions that may be available.
- Next the chatbot moves on to the analysis stage.
- It analyses the data and identifies patterns using machine learning methods.
- The chatbot then negotiates the best possible price.


Application
Frontend
Backend
JS
CSS
Python
AI model
Database
IIS

Frontend Functionality and technology.

- JavaScript: Will be used to create interactive UI/UX .
- CSS: For designing and making website interactive creates a great user experience. By using HTML and CSS, and JS we will create the front end of our project.
- Python: To build the chatbot model, train and test data

Backend Functionality.

- AI Model: The model that we built using python will reside in the backend and will function from here
- Database: Integrating AI with product database to optimize the mode.
- IIS: Will deploy it on a local host.

Database:

- It stores all the information that the chatbot needs to operate effectively
- Organizations using this approach can create and store information about their unique products including product details, pricing data, and customer preferences
- Will be using CSV file for storing the data.

AI Feature

- We will be using Decision Tree Regression Model for implementing the AI feature, to get the optimum predicted discount.
- By using machine learning algorithms, the chatbot can learn from each interaction and continuously improve its performance

Thank you