🛠️Installation Guide – Tech Product Recommender

This guide will help you run the **Tech Product Recommender** on your local machine. You can choose either the **Docker method (recommended)** or the **manual setup** if you prefer working without containers.

✅Prerequisites

Make sure you have the following available:

- Windows 10 / Linux / macOS
- Internet connection
- One of the following setups:
    - **Docker Desktop**
    - **Python 3.8+ and Node.js** (for manual setup)

🚀 Method 1: Docker Installation (Recommended)

1. **Install Docker Desktop**
   Download and install Docker: https://www.docker.com/products/docker-desktop

2. **Check if Docker is working**
   Open a terminal and run:
    - docker --version
    - docker compose --version

3. **Clone the repository**
    - git clone https://github.com/divyam012/Tech_Product_Recommender_JTP.git
    - cd Tech_Product_Recommender_JTP
4. **Start the app with Docker Compose**
    - docker compose up --build
5. **Visit the app**
    - Frontend: http://localhost:8081
    - Backend API: http://localhost:8080

🧰 Method 2: Manual Installation (Python + Node.js)

1. Check the environment setup

Make sure these are installed:

- Python: python --version
- Nodejs: node --version
- Nodemon: npm --version

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2. Backend Setup

Run the following commands from the root directory:

- cd backend
- pip install -r requirements.txt
- uvicorn backend:app --reload --port 8080

This will start the backend at: http://localhost:8080

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3. Frontend Setup

Run the following commands from the root directory:

- cd frontend
- create .env file and paste the following code into it:
  REACT_APP_API_URL=http://localhost:8080

- npm install
- npm start

This will run the React frontend on: http://localhost:3000

🧯 Common Issues & Fixes

Problem	Solution
🔁 Port already in use	Close the app using that port or change the port in the Docker config.
🚫 Backend not responding	Make sure uvicorn is running. Check for typos or port conflicts.
🌐 Frontend can't connect	Double-check that both frontend and backend are running.
🐬 Docker errors	Try docker compose down then docker compose up again.
