

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)
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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:8000>
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Method 2: Manual Installation (Python + Node.js)

1. Check 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 8000

This will start the backend at: <http://localhost:8000>

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 unicorn 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.
