**Project Idea: "EcoMart: AI-Powered Sustainability Marketplace"**

**Overview**: A platform that promotes eco-friendly buying and selling by connecting users with sustainable products, services, and resources while tracking their carbon footprint based on their purchases.

**Key Features:**

1. **Marketplace for Eco-Friendly Products**:
   * Vendors can list products/services marked as sustainable (e.g., reusable items, handmade goods, organic food).
   * Products tagged with details like "biodegradable," "plastic-free," or "locally made."
2. **Carbon Footprint Tracker**:
   * Track the estimated carbon footprint of each purchase using an integrated API (like Carbon Interface API).
   * Visual representation of individual and community impact (charts, graphs).
3. **AI Recommendations for Sustainability**:
   * Suggest alternatives to regular products with eco-friendly options.
   * Analyze user habits and provide tips for reducing waste or energy consumption.
4. **Circular Economy Features**:
   * Peer-to-peer second-hand exchange section.
   * Repair service listings for products (e.g., electronics, clothes).
5. **Educational Hub**:
   * Blog and video resources about sustainable living, DIY recycling, and green innovations.
   * Gamification with quizzes and rewards for learning about sustainability.
6. **Incentive System**:
   * Reward users with points for eco-friendly purchases, which can be redeemed for discounts or donated to environmental causes.
   * Community leaderboard for sustainability contributions.
7. **Geolocation-Based Suggestions**:
   * Show local eco-friendly shops, farmers' markets, or recycling centers.
   * Users can search for vendors within a specific radius.

**Frontend Features (React):**

* Modern UI with filters for eco-friendly categories.
* Dynamic dashboards showing user achievements and contributions.
* Interactive charts for carbon footprint tracking.

**Backend Features (Django):**

* **Vendor Management**: CRUD for vendor profiles and product listings.
* **API Integration**: Handle data for carbon footprint calculations.
* **Authentication**: Multi-level (users, vendors, admin) using JWT.

**Database:**

* PostgreSQL for relational data (users, products, orders).
* Use Redis for caching recommendations and leaderboard data.

**Unique Angle:**

* Combines e-commerce with environmental education.
* Real-time carbon tracking per purchase.
* Promotes second-hand and repair options alongside new eco-friendly products.