

عالی، بر اساس فایلی که دادی (Django Roadmap) کل محتوا رو به صورت یک چک لیست کامل، حرفه ای و انگلیسی برات بازنویسی می کنم؛ طوری که مستقیم بشه ازش برای PowerPoint، Notion، یا GitHub README استفاده کرد.

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## ✅ Django Backend Engineer – Complete Checklist (Roadmap-Based)

### Web Fundamentals

- Understand how the web works (HTTP, HTTPS, DNS)
  - Client–Server architecture
  - Request–Response lifecycle
  - REST principles
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### Python Prerequisites

- Python syntax & data types
  - Functions and modules
  - Virtual environments
  - Package management (pip)
  - OOP basics in Python
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### Getting Started with Django

- Install Django
  - Create first Django project
  - Run development server
  - Understand manage.py
  - Project vs App concept
  - Create and register Django apps
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## Django Project Structure

- settings.py •
  - urls.py •
  - wsgi.py & asgi.py •
  - views.py •
  - models.py •
  - admin.py •
  - tests.py •
  - migrations/ •
  - templates/ •
  - static/ •
  - media/ •
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## URL Routing

- URL patterns •
  - Path converters •
  - Named URLs •
  - Reverse URL resolution •
  - Regex paths •
  - Grouping URLs •
  - Routing middleware •
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## Views

- Function-Based Views (FBV) •
- Class-Based Views (CBV) •
- Generic Views •

- ListView •
  - DetailView •
  - CreateView •
  - UpdateView •
  - DeleteView •
  - Customizing CBVs •
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## **MVC / MVT Architecture**

- Understand Django MVT pattern •
  - Role of Models •
  - Role of Views •
  - Role of Templates •
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## **Templates (DTL)**

- Template rendering •
  - Variables •
  - Filters •
  - Custom filters •
  - Tags •
  - Custom tags •
  - Template inheritance •
  - {% for %} loops •
  - {% if %} conditions •
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## **Models & ORM**

- Model definition •

- Field types •
  - Field options •
  - Model relationships (OneToOne, FK, M2M) •
  - Model inheritance •
  - Custom fields •
  - Model methods •
  - Validation •
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## Databases

- SQLite •
  - PostgreSQL •
  - MySQL •
  - MariaDB •
  - Database configuration •
  - Switching databases •
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## Querying Data (ORM)

- Create •
  - Update •
  - Delete •
  - Filtering & lookups •
  - Aggregations •
  - Raw SQL queries •
  - Query optimization •
  - Avoiding N+1 queries •
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## Migrations

- Create migrations
  - Apply migrations
  - Rollback migrations
  - Data migrations
  - Schema migrations
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## Django Admin

- Register models
  - Admin customization
    - List display
    - Search & filters
    - Inline models
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## Authentication & Authorization

- Built-in User model
  - Custom User model
    - Permissions
    - Groups
  - Protecting views
  - django-allauth
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## Forms

- Django Forms
- ModelForms

- Form validation •
  - Custom validation logic •
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## **Static & Media Files**

- Static files setup •
  - Media files handling •
  - WhiteNoise •
  - Serving static files in production •
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## **Pagination**

- Built-in pagination •
  - Custom pagination logic •
  - Performance considerations •
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## **Middleware**

- Built-in middleware •
  - Custom middleware •
  - Request/Response processing •
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## **Logging, Debugging & Testing**

- Django logging framework •
  - Loggers •
  - Handlers •
  - Formatters •
  - Debug Toolbar •

- django-silk
  - PDB / IPDB
  - Custom error pages
  - Unit tests
  - TestCase
  - pytest
  - Django Test Framework
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## **Advanced Django Topics**

- Background tasks
  - Celery
  - Asynchronous Django
  - Caching
  - Localization & i18n
  - Signals
  - Django shell usage
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## **API Development (DRF)**

- Django REST Framework setup
- Serializers
- Views & ViewSets
- Routers
- Authentication
- Permissions
- Pagination
- API versioning

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## Deployment & Production

- Virtual environments
- Environment variables
- Production checklist
- Gunicorn / Uvicorn
- Nginx
- Static files in production
- Security settings
- Database backups

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## Continuous Learning

- Python Roadmap
- Backend Roadmap
- Full Stack Roadmap
- roadmap.sh resources

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## Final Note

This checklist represents a **complete, industry-aligned Django learning path**.  
Each item should be practiced through **real projects**, not just theory.

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اگر بخوای:

- این رو دقیقاً به اسلایدهای PowerPoint تبدیل کنم
- یا به Senior-level roadmap با Data & Performance focus
- یا حتی به Notion / GitHub checklist template

بگو، مرحله بعدی رو حرفه‌ای‌ترش می‌کنیم 



