

عالی، بر اساس فایلی که دادی (**Django Roadmap**) کل محتوا را به صورت یک چک لیست کامل، حرفه‌ای و انگلیسی برای بازنویسی می‌کنم؛ طوری که مستقیم بشه ازش برای **GitHub README**، **Notion**، **PowerPoint** یا برنامه **یادگیری استفاده کرد.**

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/

URL Routing

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

Views

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

 ListView •

 DetailView •

 CreateView •

 UpdateView •

 DeleteView •

 Customizing CBVs •

MVC / MVT Architecture

 Understand Django MVT pattern •

 Role of Models •

 Role of Views •

 Role of Templates •

Templates (DTL)

 Template rendering •

 Variables •

 Filters •

 Custom filters •

 Tags •

 Custom tags •

 Template inheritance •

 { % for % } loops •

 { % if % } conditions •

Models & ORM

 Model definition •

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

Databases

SQLite	•
PostgreSQL	•
MySQL	•
MariaDB	•
Database configuration	•
Switching databases	•

Querying Data (ORM)

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

 **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 •

Static & Media Files

Static files setup •

Media files handling •

WhiteNoise •

Serving static files in production •

Pagination

Built-in pagination •

Custom pagination logic •

Performance considerations •

Middleware

Built-in middleware •

Custom middleware •

Request/Response processing •

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 •

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.

اگر بخوای:

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

بگو، مرحله بعدی رو حرفه‌ای ترش می‌کنیم 

