

Django Course Structure

Duration – 70 Hours (4 Months)



Foundational Modules -- 20 Hours

- **Python Programming Fundamentals:** Covers core Python concepts, data structures, and object-oriented programming (OOP).
- **Web Fundamentals:** Introduction to HTML, CSS, JavaScript, and HTTP protocols.
- **Version Control:** Basic use of Git and [GitHub](#) for project management.

Django Core Modules -- 20 Hours

- **Project and App Structure:** Setting up the development environment, virtual environments, and understanding Django's architecture (MVC/MTV).
- **Models, Databases, and ORM:** Creating models, performing database migrations, and interacting with data using Django's Object-Relational Mapper (ORM) and SQLite/PostgreSQL.
- **Views and URLs:** Defining application logic in views and mapping them to specific URLs.
- **Templates and Static Files:** Rendering HTML using Django templates, managing static CSS/JS files, and using template inheritance.
- **Admin Interface:** Customizing and utilizing the built-in Django admin panel for managing data.
- **Forms and User Authentication:** Handling user input with Django forms and implementing authentication systems (login/logout, user roles).

AI Integration and Tools -- 10 Hours

- These modules introduce leveraging AI within the development workflow or application itself.
- **AI-Powered Development Tools:** Using AI assistants like GitHub Copilot or Claude AI for code generation, debugging, and explaining errors.
- **Integrating AI Functionality:** Learning how to integrate external AI APIs (e.g., OpenAI APIs) into a Django application.
- **Building AI Features:** Topics might include basic implementations of AI features like search functionality or data analysis with libraries such as NumPy and Pandas.



Contact Us Today!



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