IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Impact Factor: 7.67

Volume 5, Issue 3, May 2025

Comprehensive Research on Python, Django, and the Power of Web Development Libraries

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Abstract: This research paper thoroughly examines Python and Django as foundational tools in contemporary web development. Python is celebrated for its readable syntax and a robust ecosystem of libraries that support various programming paradigms and use cases. Django, a high-level web framework built on Python, enables developers to build robust, secure, and maintainable web applications efficiently. The study explores Django's architecture, core functionalities, and how it integrates with essential libraries such as Django REST Framework, Celery, and Channels. By including practical use cases and industry examples, this paper showcases Django's relevance in solving realworld development challenges.

DOI: 10.48175/IJARSCT-26357

Keywords: Python and Django.





