

Differences Between FastAPI vs Flask

For Machine Learning



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FastAPI vs. Flask

**FastAPI vs. Flask - Understand
The Key Differences to Choose
the Right Python Framework
For Your Next Machine Project**

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Performance

FastAPI excels in efficiency for larger-scale machine learning projects, employing asynchronous request processing with asyncio. Unlike Flask, which processes requests synchronously, FastAPI is ideal for quick, basic API development in time-constrained scenarios.



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Security

FastAPI's `security` module offers diverse tools for various security mechanisms. Despite Flask's simplicity, it effectively addresses common security issues such as CSRF, XSS, JSON security, etc. Standard security measures can be implemented using third-party extensions like **Flask-Security.**

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Ease of Learning

**FastAPI is easy to learn,
especially for those without
web development experience.
However, there aren't many
online resources, courses, or
tutorials.**

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Database Support

FastAPI supports various NoSQL databases, such as MongoDB, ElasticSearch, Cassandra, CouchDB, and ArangoDB, using Pydantic ORM mode in SQLAlchemy.

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Database Support

In **Flask**, there is no built-in ORM, but developers can use open-source libraries like **Flask-SQLAlchemy** and **Flask-Pony**.

Flask-PyMongo is recommended for integrating **MongoDB** with **Flask**.

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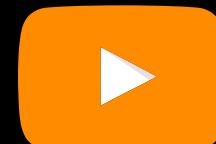
Admin Dashboard

FastAPI has a dashboard using Swagger for API documentation.

Flask lacks a built-in admin panel, but you can add one with the **Flask-Admin** extension, supporting different backends like **Peewee**, **MongoEngine**, and **SQLAlchemy**.

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Thanks !!

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And most importantly...

Keep on learning



Happy Coding