

Django rest framework API

**Creating Powerful API with
Python and Django (DRF)**



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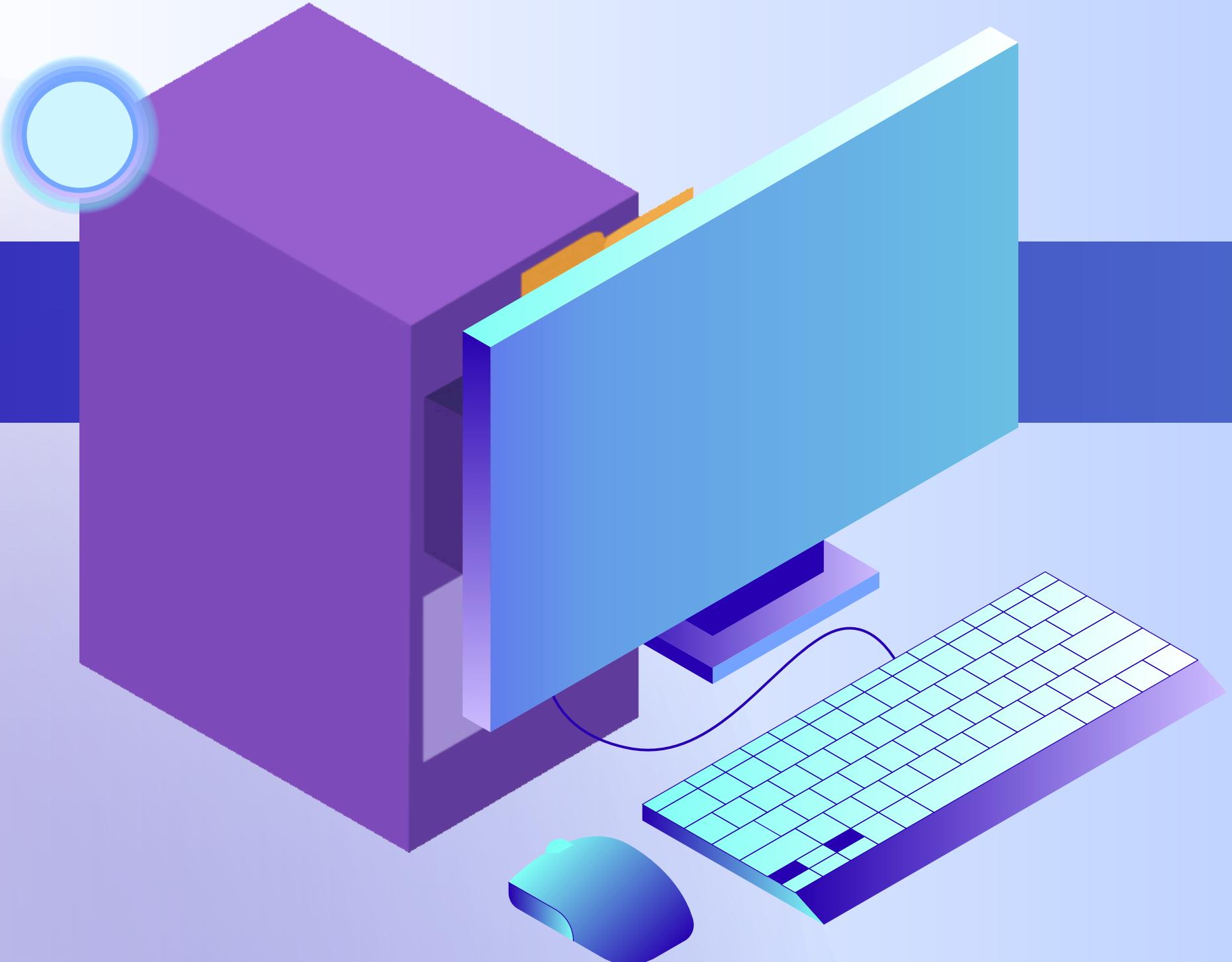
READY TO START ?

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PROGRAMMING LANGUAGES

Programming languages are crucial tools in computer science, enabling developers to write instructions for computers. Examples include Python for its simplicity and readability, Java for its portability and performance, and C++ for its balance of low-level control and high-level abstractions. Choosing the right language depends on factors like application requirements, performance needs, and developer preferences.





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SOFTWARE ENGINEERING



Software engineering applies engineering principles to the design, development, testing, and maintenance of software systems. It emphasizes systematic approaches to software development, ensuring that projects are completed on time and within budget while meeting quality and performance standards. Key practices in software engineering include requirements analysis, software design, coding, testing, and deployment. Effective collaboration, project management, and communication are essential for successful software engineering projects, which range from small-scale applications to large-scale enterprise systems.

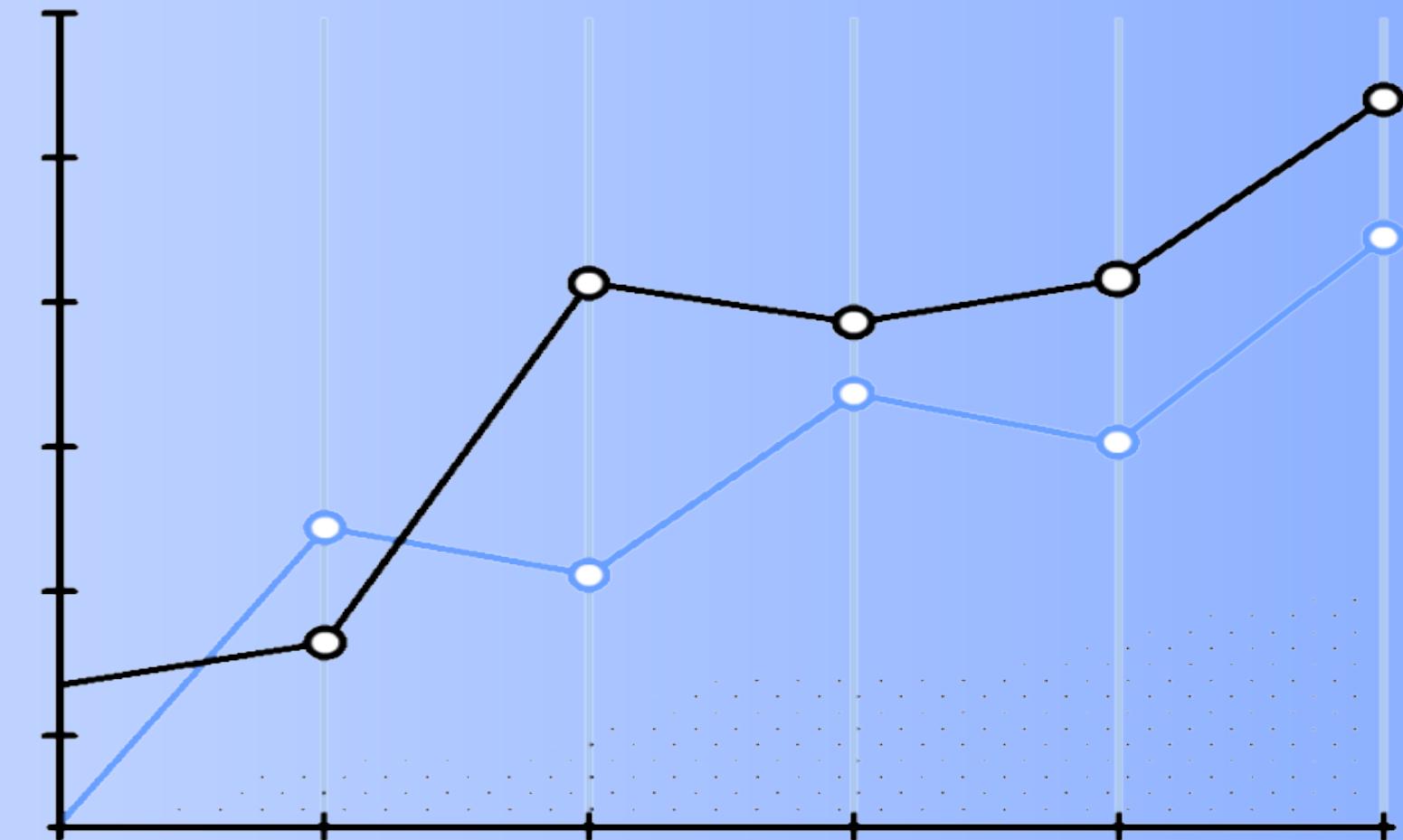


DATA SCIENCE

Data science combines computer science with statistics and domain knowledge to extract meaningful insights and knowledge from data. It involves techniques like data mining, machine learning, and data visualization.

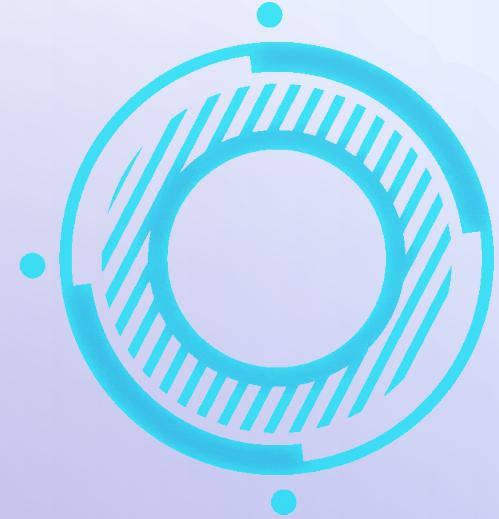


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CYBERSECURITY

Cybersecurity safeguards computer systems, networks, and data from unauthorized access, attacks, and damage. It includes encryption for data security, firewalls for network traffic control, and intrusion detection systems for threat identification. Proactive measures like vulnerability assessments and security training mitigate risks and protect organizations.





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ARTIFICIAL INTELLIGENCE

Artificial Intelligence (AI) enables machines to perform tasks requiring human-like intelligence, such as learning from data, problem-solving, and understanding natural language. AI technologies include machine learning algorithms, neural networks, and expert systems. Applications span industries like healthcare, finance, transportation, and entertainment, revolutionizing how tasks are automated and decisions are made.





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FUTURE TRENDS

The future of computer science is shaped by emerging technologies and evolving trends that promise to transform industries and society. Quantum computing represents a paradigm shift in computational power, enabling calculations that are beyond the capabilities of classical computers. The Internet of Things (IoT) connects everyday objects to the internet, creating vast networks of interconnected devices that can share data and automate processes. Augmented reality (AR) and virtual reality (VR) enhance user experiences by overlaying digital information onto the physical world or creating immersive virtual environments. Biocomputing explores the intersection of biology and computer science, using biological materials and processes to develop new computing paradigms and technologies.





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