

Introduction & Installation

Coursework Series : Week 1

Course Outline & Outcomes

Get comfortable with the ML Landscape

Learn what Jaseci Offers and how it will affect you and the industry

Ability to Create a complete ML Application with the help of Jaseci

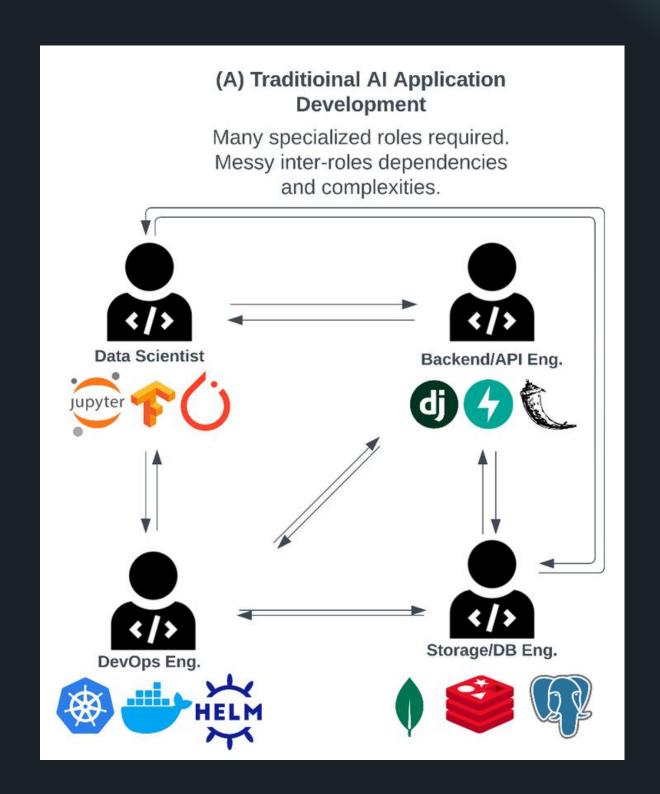
How ML/AI Development happens NOW?

Professions/Roles

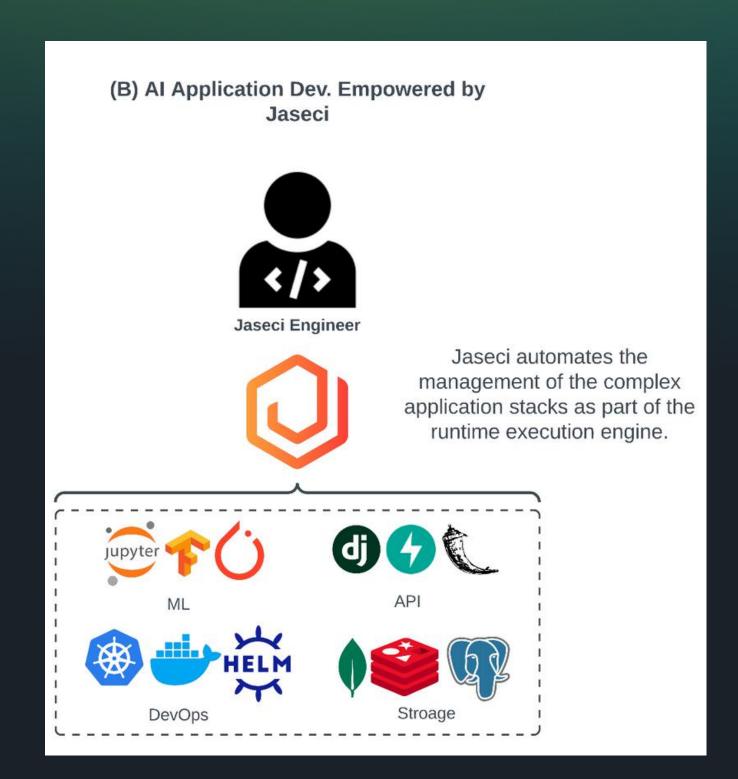
- Machine Learning Engineer / Data Scientist
- MLOps Engineer/ DevOps Engineer
- Backend Engineer
- Storage/DB Engineer

Technologies

- Tensorflow, Pytorch, ONNX, TensorRT, Jupyter Notebooks, Python, etc.
- FastAPI, Flask, Django
- Docker, Kubernetes, Helm
- MongoDB, Redis, SQL, Memcache







Jaseci is a solution aimed at accelerating and democratizing the development and deployment of scalable AI applications, with a set of high-level abstractions for programming sophisticated software in a micro-service/serverless AI environment and a full-stack architecture and programming model that automates much of the complexity in building distributed applications on potentially thousands of compute nodes.



Bleeding edge AI ready for use

- A wide range of bleeding-edge AI models is ready to use out of the box.
- Task-level AI models across language, vision, etc domains, engineered and configured by the top AI science so you can directly plug and play



Rapid backend development that requires ZERO backend knowledge

- Simple language features to grasp for front engineer developers to quickly prototype the backend.
- Intuitive, novel programming paradigm that reduces lines of code by orders of magnitude, even for skilled backend developers.

RE-THINK AI PRODUCT DEVELOPMENT



Automated scalable deployment that requires ZERO devops knowledge

- Out-of-box production-grade containerization and orchestration so you can stand up a production-ready stack in minutes.
- Novel load balancing and facilitation techniques. Your production Jaseci cluster scales intelligently with your application's demand.



Automated API generation

- Automatically generates RESTful API endpoints and other SDK libraries interface based on your code.
- Without having to worry about the complexity of web service frameworks like Django or Flask, developers can focus their energy on building the best AI features.

Build Just About Anything, With Jaseci





Chatbots





Digital Assistants

ints

Predictive & Big Data Analytics Systems



Scalable Microservicebased APIs



Search & Recommendation Systems



Facial Detection & Recognition Systems

Powering the next generation of Al products

Read about how developers build successful Al products on Jaseci 🗹

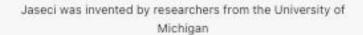




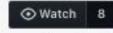


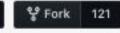










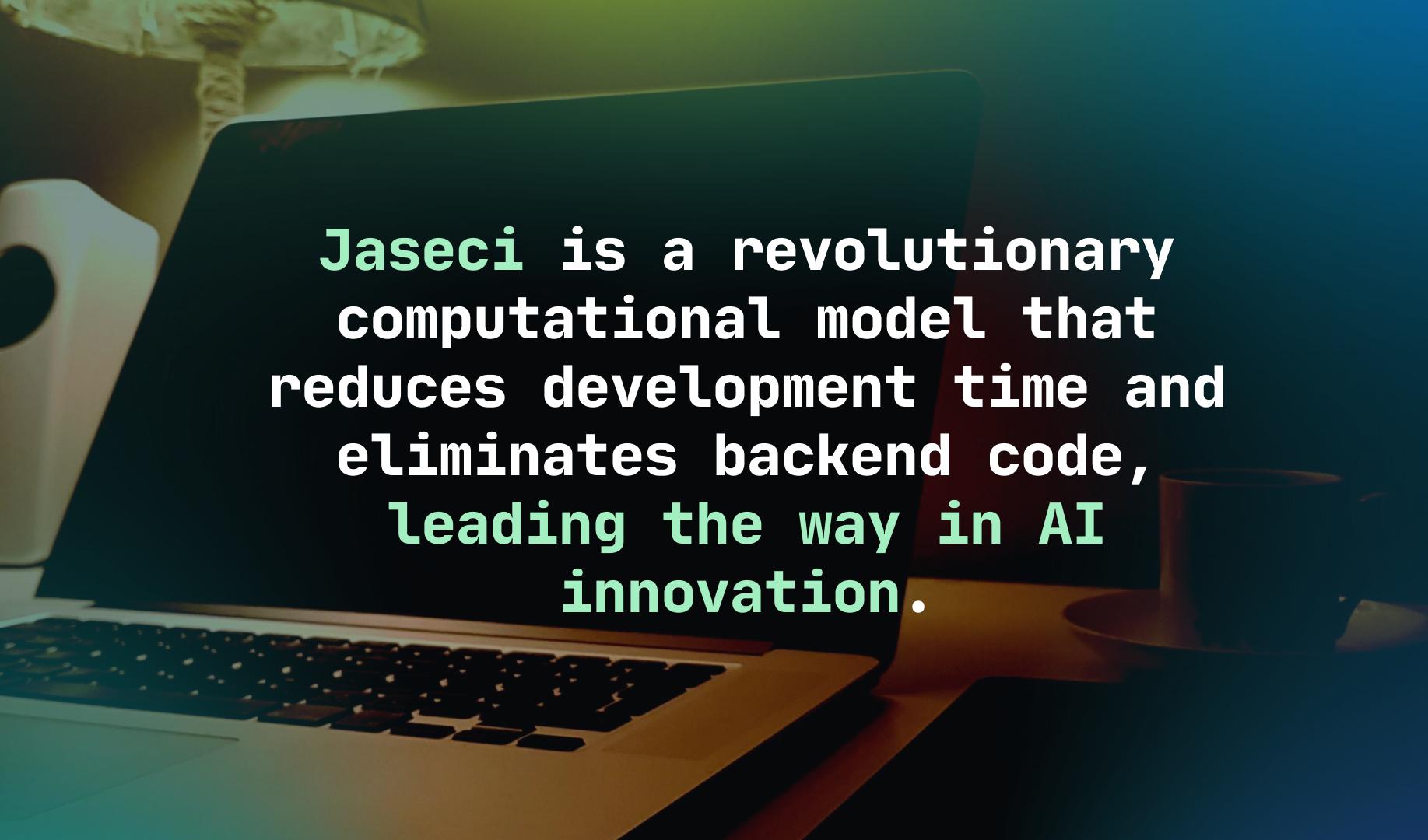




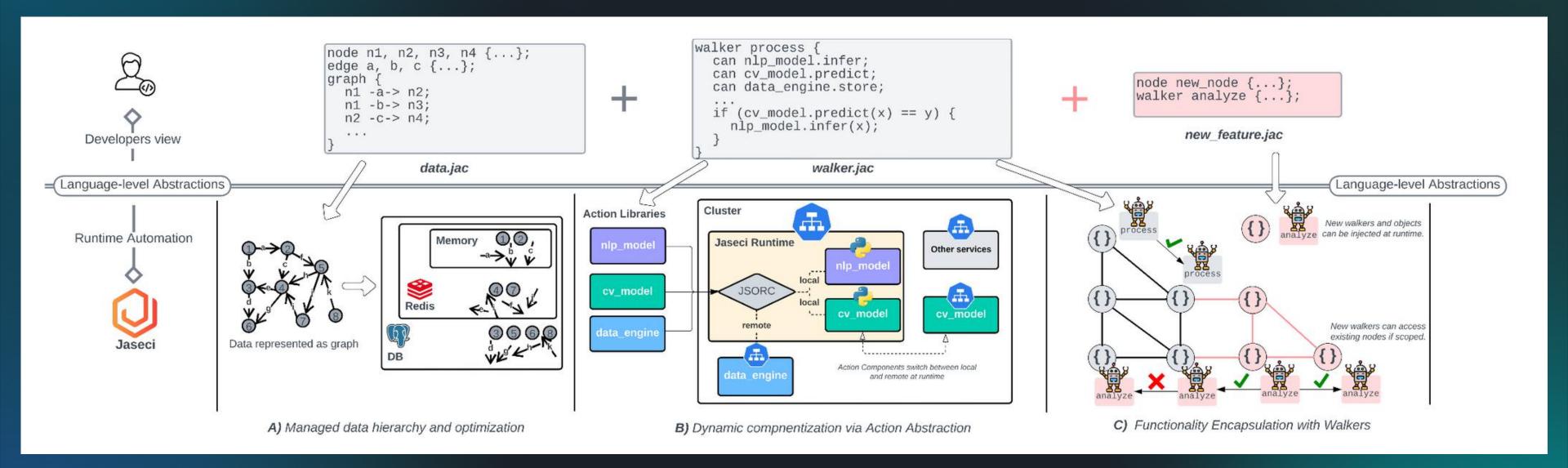
Jaseci is 100% open source under MIT on GitHub



Jaseci is supported by the NVIDIA Inception program.

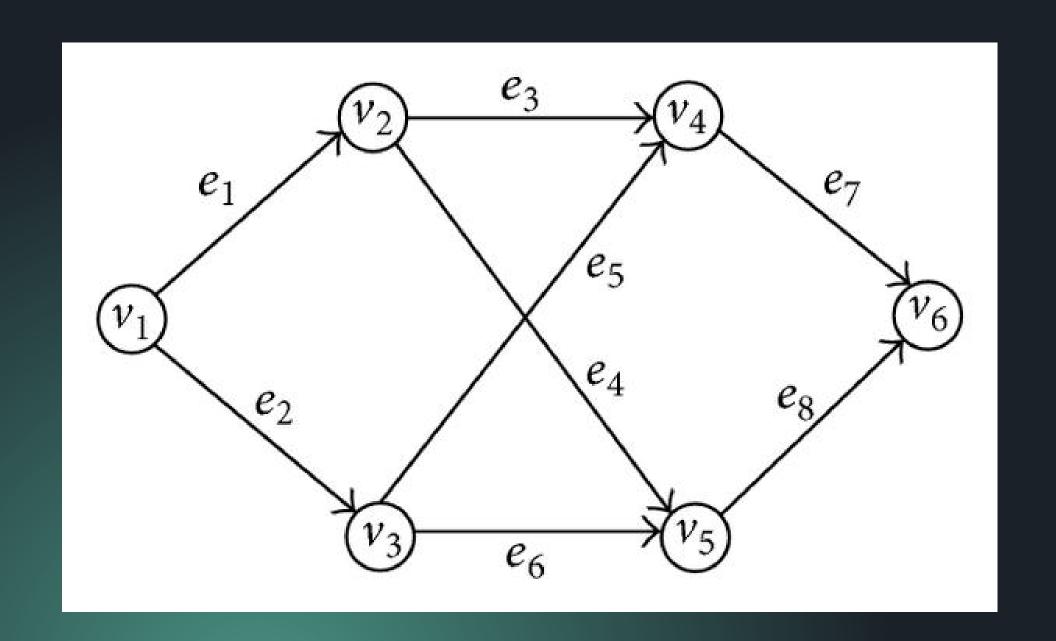


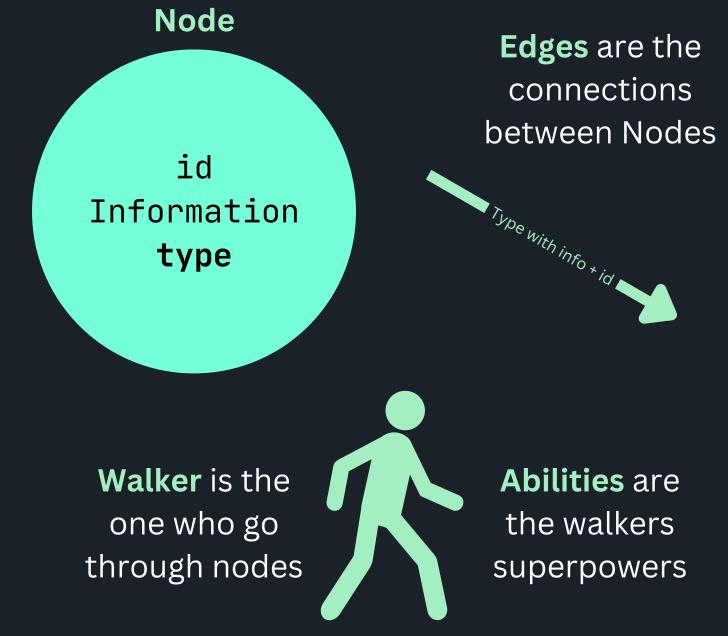
How Jaseci Works



Language Level Abstractions

Graphs, Nodes and Edges
Walkers
Abilities
Actions

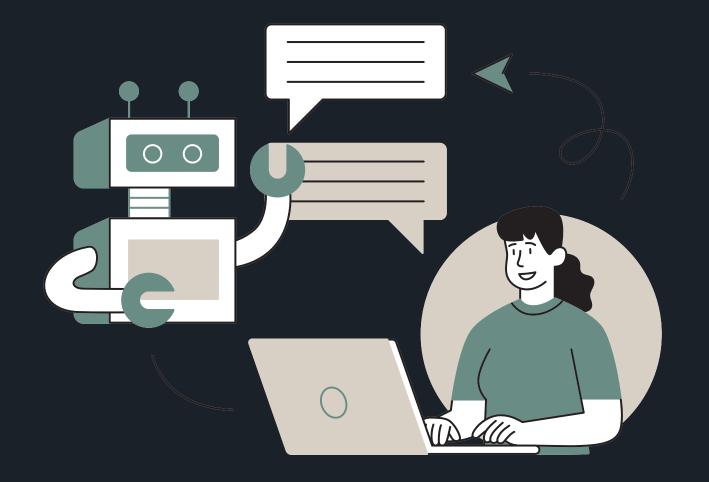






Interfacing with Jaseci

- Local JSCTL
- Remote JSCTL
- JSSERV



Lets run a Chatbot on your Computer

Next Week Content

- Getting Started with JAC Programming
- Buiding the your first Jaseci Program