Artificial Intelligence Landscape in São Paulo State

Research excellence
Industrial innovation
Global partnerships
AI for science and sustainability



Why São Paulo Leads AI in Brazil

- Largest scientific and technological ecosystem in Latin America
- Strong and stable support from FAPESP
- World-class universities and research institutes
- Powerful industrial and startup ecosystem
- Advanced infrastructure for data science and HPC

Center for Artificial Intelligence (C4AI)

- Partnership among USP, IBM, and FAPESP
- Research areas: NLP, healthcare, agriculture, climate, ethics
- One of the largest AI centers in Latin America
- International collaboration and open science initiatives

IARA – AI in the Rebuilding of Urban Environments

- FAPESP Applied AI Center hosted at ICMC-USP
- Focus on smart and sustainable cities
- AI for cybersecurity, education, healthcare, mobility, and environment
- Strong interaction with public policies and urban resilience

Viva Bem – AI for Health and Well-Being

- Partnership among Unicamp, Samsung, and innovation centers
- AI for wearable devices and preventive healthcare
- Personalized monitoring and digital health
- Use of advanced supercomputing infrastructure

HORUS – Synthetic Reality Detection

- Unicamp/FAPESP large-scale project
- AI techniques for deepfake and synthetic media detection
- Digital forensics and trustworthy AI
- Cybersecurity and misinformation mitigation

BIOS – Brazilian Institute of Data Science

- Hosted at Unicamp
- AI for healthcare and precision agriculture
- Data science and translational research
- Partnerships with hospitals, research institutes, and industry

Major Universities and AI Research

- USP: machine learning, robotics, AI for science
- Unicamp: computer vision, health AI, embedded AI
- ITA: aerospace AI and autonomous systems
- UNESP and federal institutes expanding AI activities

Industrial and Corporate AI Ecosystem

- IBM, Samsung, Google, Microsoft, NVIDIA, CNPEM initiatives
- Industry 4.0, telecom, generative AI, and edge AI
- Strong interaction between academia and industry

AI for Sustainability and Science

- Climate and environmental monitoring
- Precision agriculture and food systems
- Materials discovery and sustainable electronics
- Digital health and personalized medicine
- AI-driven scientific discovery and machine-generated knowledge

Strategic Opportunities

- International collaboration with universities and companies
- Expansion of HPC and AI infrastructure
- Development of foundational models
- Training interdisciplinary talent
- Leadership in trustworthy and sustainable AI

Key Message

- São Paulo combines scientific excellence, industrial capability, and strategic investment in AI.
- The state is emerging as a major AI hub in the Global South.
- Strong opportunities exist for collaboration in AI for science, sustainability, and trustworthy technologies.