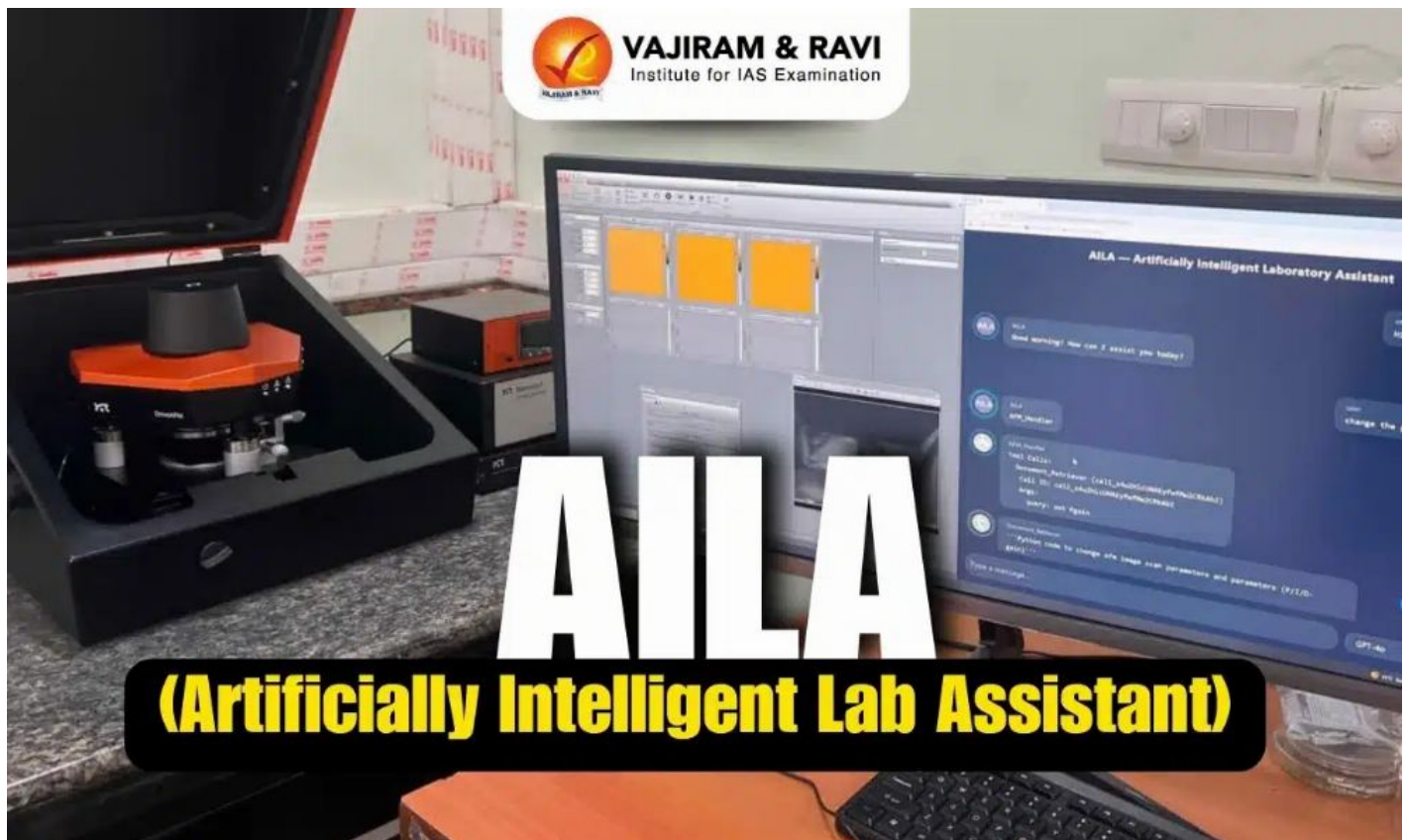


AILA (Artificially Intelligent Lab Assistant)

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AILA (Artificially Intelligent Lab Assistant) Latest News

IIT Delhi researchers recently developed an AI- Agent AILA- Artificially Intelligent Lab Assistant.

About AILA (Artificially Intelligent Lab Assistant)

- It is an **AI agent** which can **independently run complex scientific experiments, analyse results, and make decisions** in real time.
- It was developed by **IIT Delhi researchers** in collaboration with scientists from Denmark and Germany.
- **Unlike earlier AI tools that mainly helped with writing or data analysis, AILA works directly with laboratory instruments.**
- It can **operate real scientific equipment, particularly the Atomic Force Microscope (AFM)**, one of the **most delicate and complex instruments** used to study materials at the nanoscale.
 - The agent has helped reduce the time taken to optimize high-resolution AFM imaging from 24 hours to 7-10 minutes.

- When AILA is instructed to perform an experiment, it **writes the necessary code, operates the scientific instrument, collects data, and analyses the results** on its own.
- The **entire scientific workflow**, data generation, processing, and interpretation, is **automated** through AILA.
- It performs experiments much like a trained scientist.

Source: NOA

Source: <https://vajiramandravi.com/current-affairs/aila-artificially-intelligent-lab-assistant/>

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