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ePlane Company partners NVIDIA to build India's first electric air taxi

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The **ePlane Company**, a startup incubated at IIT Madras, has joined hands with NVIDIA to work on India's first electric air taxi called the e200x.

What Technology Will Be Used?

ePlane will use **NVIDIA Omniverse** to create a digital twin of the e200x aircraft.

A digital twin is a virtual model that copies the real aircraft's behaviour in computer simulations.

Using this, engineers can test flight physics, sensors, and autonomous systems safely in a virtual world.

The aircraft will also include NVIDIA IGX, a powerful onboard computer system to run critical flight software and sensors.

Why Use a Digital Twin?

Simulating flight scenarios virtually helps test:

Extreme weather conditions

Sensor failures

Situations that are costly or risky to test in real life

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This lets engineers “fly” the aircraft millions of virtual kilometres before actual tests.

Focus on Safety and Certification

The digital twin and onboard computing help validate the aircraft’s behavior before real flights.

This approach supports future certification by aviation authorities by proving safety in simulations

Goal of the Project

The partnership is part of building urban air mobility solutions to reduce city traffic and offer faster, cleaner travel options.

Overall Impact

The collaboration brings advanced simulation tools and AI computing into India’s deep-tech aviation field.

It positions ePlane as a leader in electric air taxi development using digital simulation technology.