

Exploring Artificial Intelligence And Machine Learning In Aviation

A pilot from 1995 steps into a modern cockpit and finds it unrecognizable: massive glass displays, touchscreens, voice commands, real-time weather, and AI-driven maintenance alerts. This sets the stage for a tour through the forces reshaping avionics, including the industry's legacy challenges and why technological transformation is no longer optional for aviation's future. The heart of the presentation focuses on AI and Machine Learning as the twin engines of change. Machine learning complements this by adapting to individual aircraft, routes, and pilot behavior over time, growing smarter with every flight. Navigation systems are evolving in parallel, with centimeter-accurate GPS, augmented reality displays, 3D synthetic vision, and integrated drone traffic management redefining what the cockpit can do. In summary we look at the intelligent cockpit of tomorrow — voice control, eye-tracking, gesture interfaces, and AI decision-support systems.

Seminar in Hangar B

Event Details

Fri, May 15, 2026 at 13:00 CDT

Buffalo Municipal Airport

1305 County Road 134

Hangar B

Buffalo, MN



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