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CENTER FOR EQUITABLE AI & MACHINE LEARNING SYSTEMS

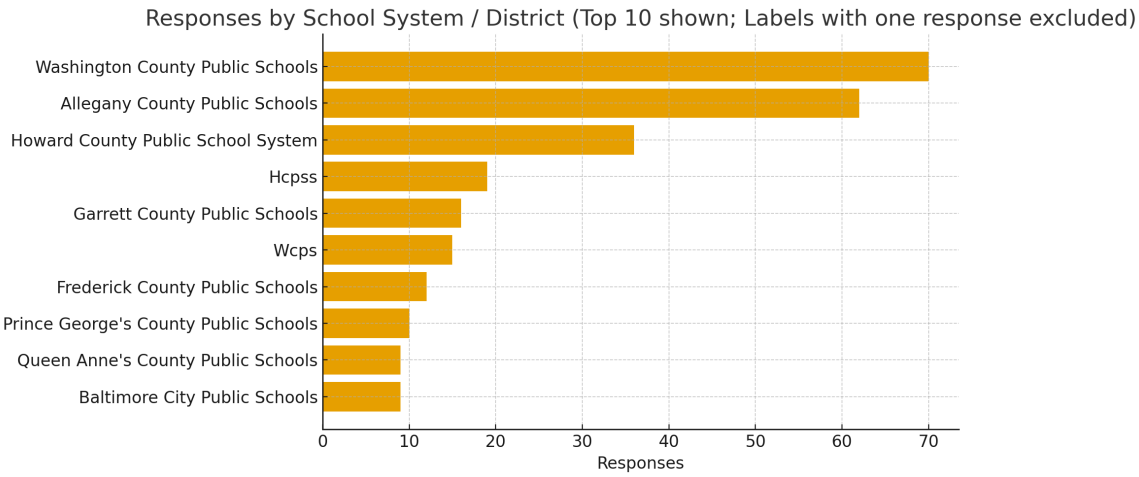
MARYLAND AI NEEDS ASSESSMENT SURVEY ANALYSIS

Maryland is committed to ensuring that all students have access to innovative educational technologies that prepare them for future success. As artificial intelligence (AI) becomes increasingly integrated into classrooms across the nation, this needs assessment survey was designed to gather insights from educators, administrators, and school systems across Maryland. The purpose is to understand the current state of AI adoption, perceived barriers, training needs, and infrastructure readiness.

SUMMARY OF FINDINGS

As of **October 10, 2025**, a total of 310 responses were collected across multiple Maryland school systems. The survey covered roles, current AI use, expressed needs, barriers, training interests, and governance considerations. Teachers made up the majority of respondents, followed by media specialists and computer science instructors. AI use is still in early phases, with most educators using AI rarely or occasionally. Top barriers include over-reliance by students, lack of training/support, bias in AI outputs, and data privacy concerns. Interest in professional development is evident, though confidence and readiness levels vary across districts.

CHARTS



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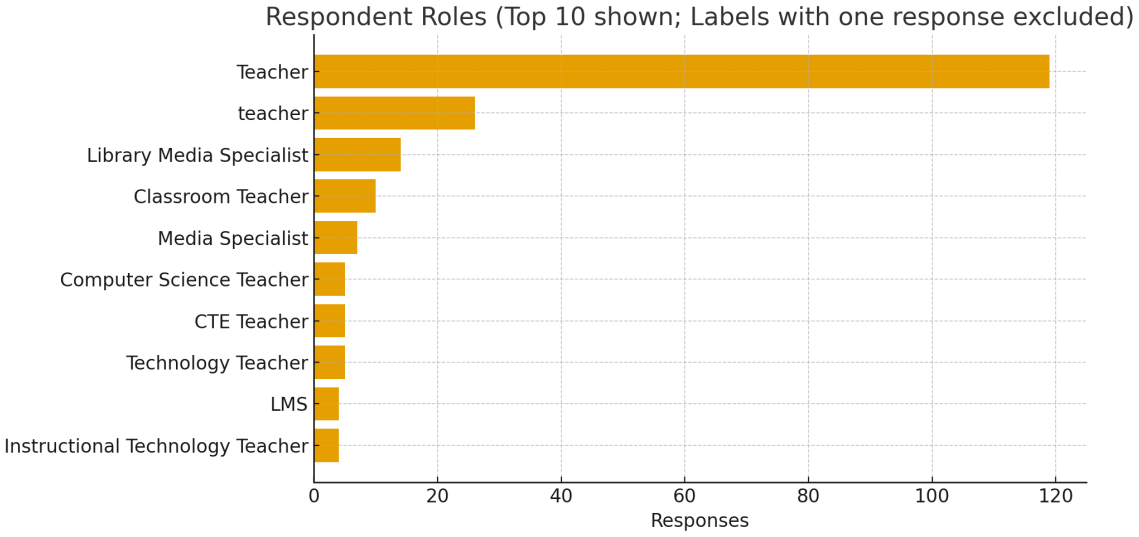

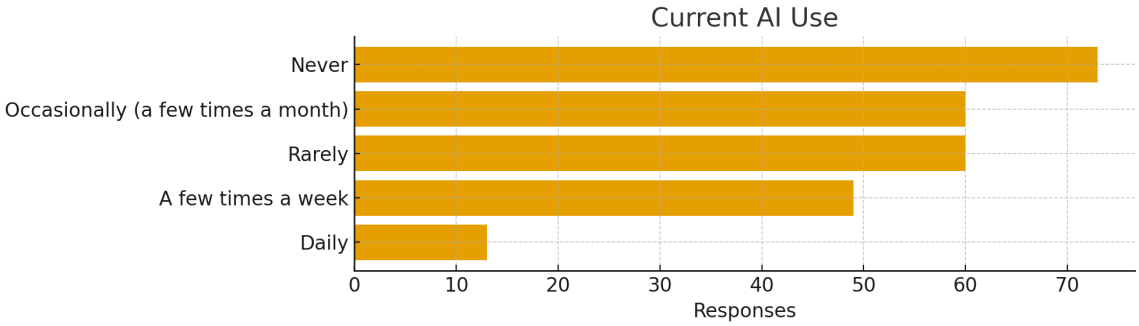

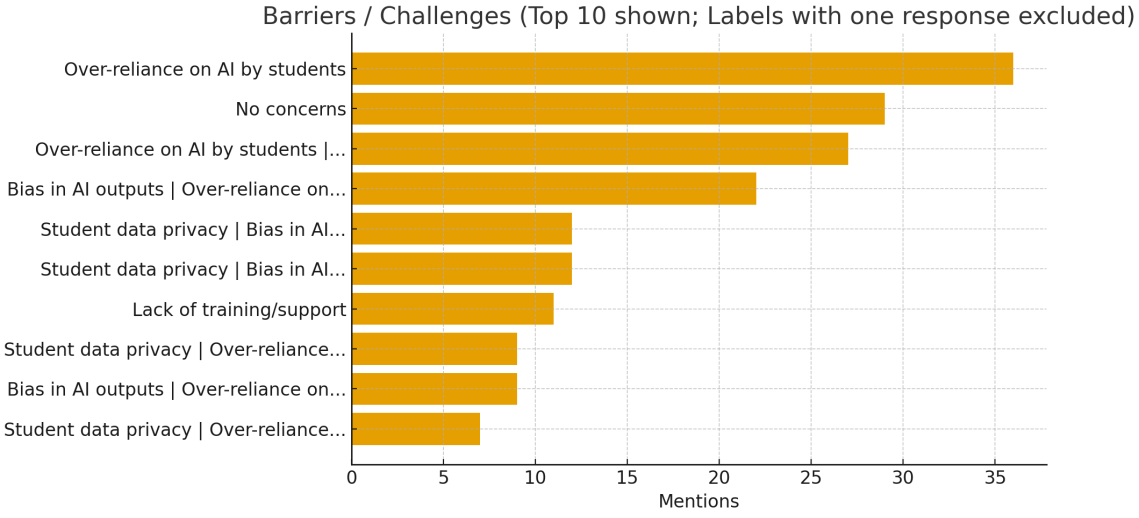

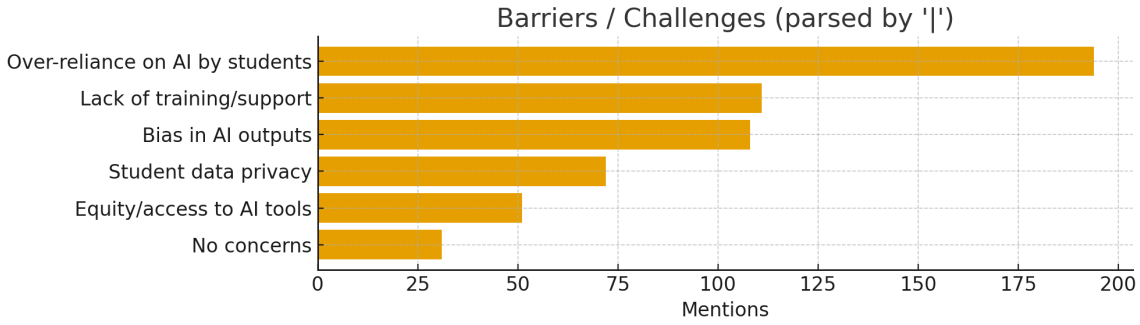

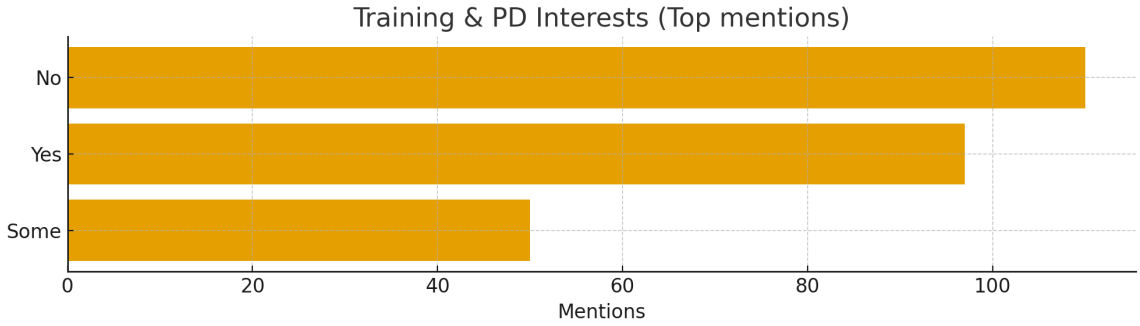

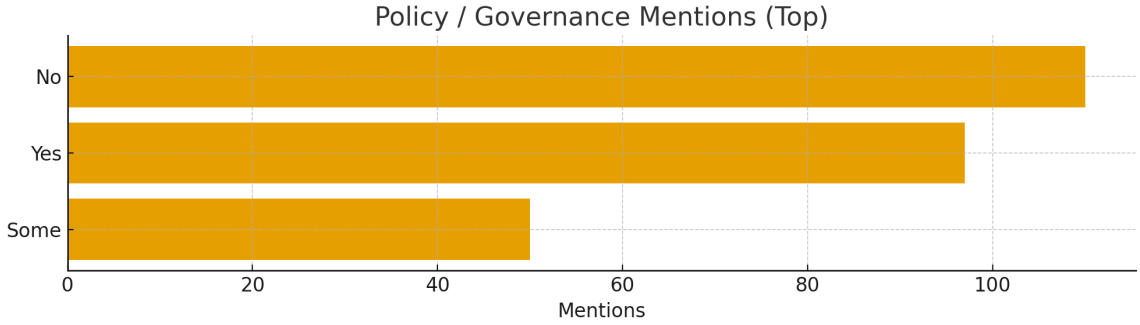

PRELIMINARY ANALYSIS

The data indicate that AI adoption in Maryland schools is uneven. Some districts, particularly Washington, Allegany, and Howard counties, show higher engagement, suggesting local leadership or initiatives around AI literacy. Teachers express uncertainty about classroom integration, citing both excitement and apprehension about AI's impact on student learning behaviors. Concerns around over-reliance by students dominate, indicating the need for strong academic integrity frameworks. Data privacy and equity of access are also recurring themes, particularly in districts with limited infrastructure or budgetary constraints. While the enthusiasm for AI training is clear, responses suggest that offerings must be tailored by readiness level—from introductory AI awareness to advanced application in content areas.