

2019 ATCA Annual Conference

October 23, 2019

## Artificial Intelligence in Aviation Safety Applications

### Exploring Myths and Truths of AI and ML

*Artificial Intelligence (AI) and machine learning (ML) are gaining increased attention as ways to leverage the world's data to solve problems. Although AI and ML offer much potential, there are often misconceptions about the application of such techniques.*

*Panel speakers will present machine learning approaches they have developed on a variety of aviation data, including digital flight data, safety reporting data, and voice communications data. They will discuss the purpose of the application, the data used, and the lessons learned in the development and deployment of their solutions. The panel will also discuss common pitfalls in developing an AI solution, the dangers of the current hype around AI, tips for gaining value from a ML solution, how to determine whether a ML approach is appropriate for a problem, and more.*

**Capt Scott Reeves**, Manager Flight Safety, FedEx Express

**Bryan Matthews**, Data Science Research Engineer, KBR / NASA Ames Research Center

**Shuo Chen**, Software Systems Research Engineer, The MITRE Corporation

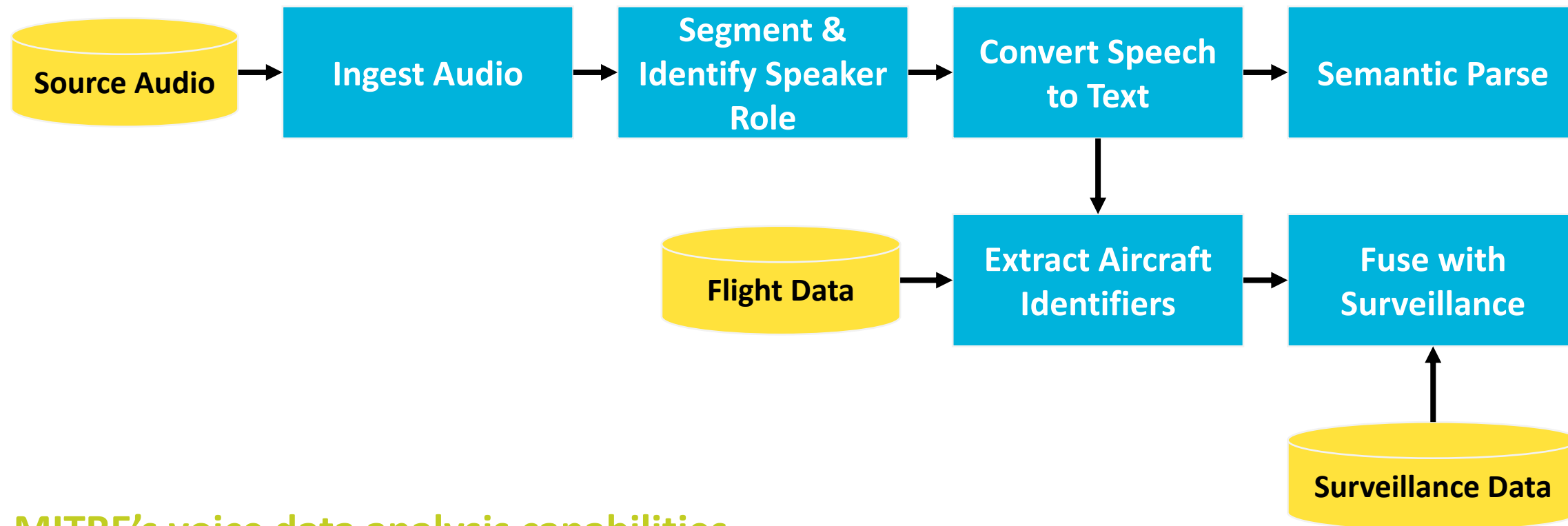
Moderator:

**Dr. Elizabeth Leeds Hohman**, Chief Data Scientist, Data Analytics Department, The MITRE Corporation





# MITRE's voice data analysis capabilities



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