Alin Wi-Fi



WI-FI KS, 2025

-PRABHASH DHYANI

AI/ML Applications in Wi-Fi Systems

QoE Enhancement

AI/ML for ensuring high-quality user experiences



Radio Resource Management

AI/ML for dynamic channel selection and power optimization

Configuration Recommendations

AI/ML for suggesting and auto-tuning network settings







Client Steering

AI/ML for optimizing client connections and roaming

Predictive Maintenance

AI/ML for forecasting and preventing network failures

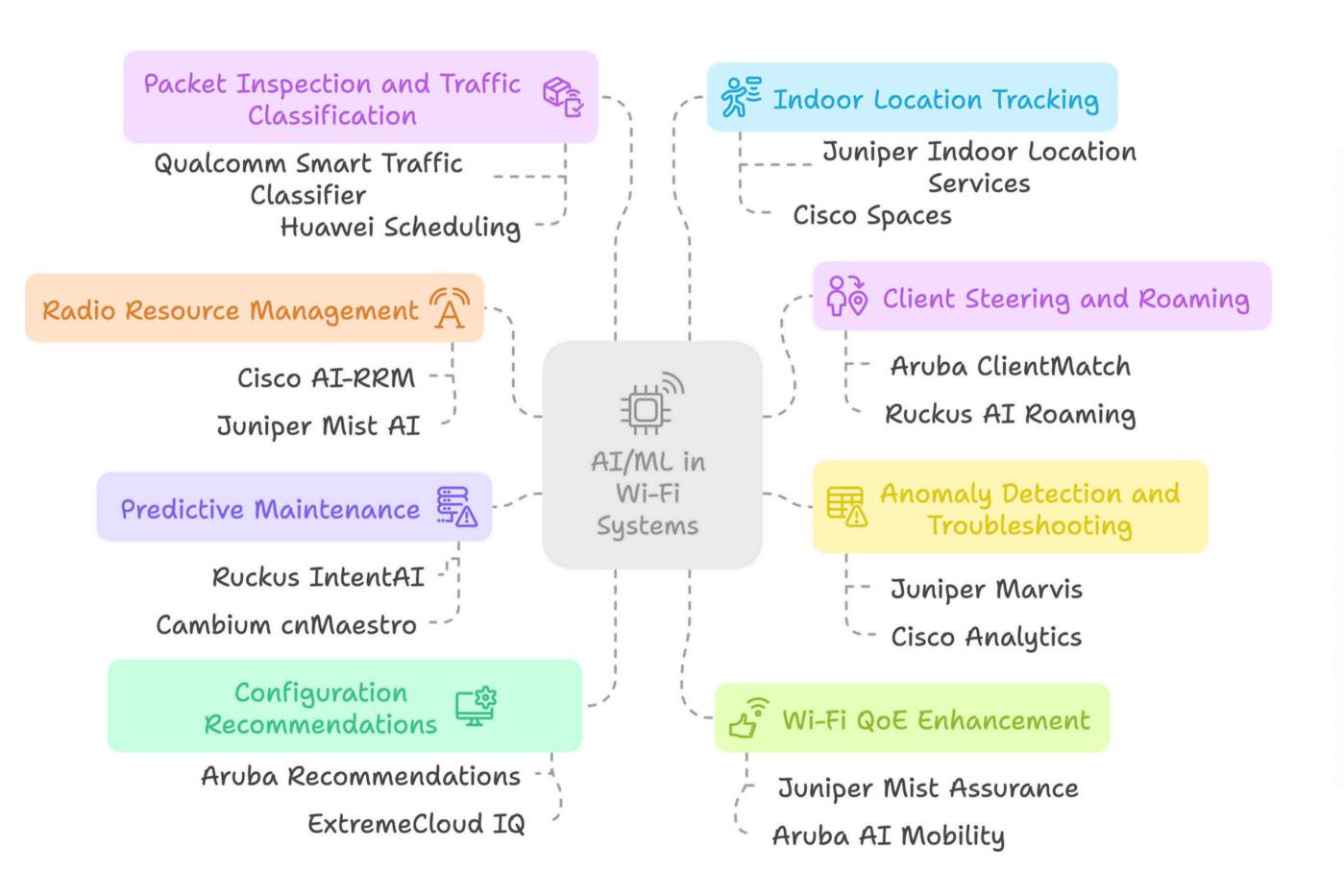




Anomaly Detection

AI/ML for identifying and troubleshooting network issues







The Panel



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Practical Al



What are the top AI use cases?

For enterprise, ISP and home users, what are the tangible outcomes?



Al vs traditional methods?

What's better now? What's still hard?



Al as premium feature or bundled-in?

How do customers measure value? How do you justify ROI in enterprise, ISP and home users?



Audience Questions:

Do IT admins trust these decisions or override them?

Where does the intelligence live?



Where should AI actually run?

Cloud, Edge or Hybrid? What are the pros and cons?



Is Edge Al useful for enterprises too?

Why or why not?
What will it take for inferencing? Compute, Memory,
Power?



Cloud AI vs Edge AI

How does Edge AI change strategy or cost structure?



Audience Questions:

"If you're from an ISP—or a customer of one—do you notice if your experience improves because of AI?



The Future: GenAl and New Frontiers



GenAl in Wi-Fi Stack?

What are the top use cases?



Change in the UI usage?

Al is the new UI?
Are you seeing that adoption?



What will Edge AI offer?

Optimizations or user-features?



Audience Questions:

Is GenAI in Wi-Fi industry a hype or a real thing?



Wrap-up!



Is data history a moat?

 Can a new player match your Al performance without years of logs?"



What's next?

- Where do you see the next AI + WiFi convergence point?
- What's one thing you're excited about?"

