SUCCESS STORY

AI & Data

Telecommunications

ELIASSEN GROUP®

Project: AI-Powered Regulatory Intelligence Platform

Business Challenge/Opportunity

A major telecommunications provider faced significant challenges monitoring public perception around critical spectrum allocation proceedings that directly impacted their nationwide public safety network. Thousands of regulatory filings required systematic analysis, but manual review couldn't effectively identify patterns, stakeholders, or sentiment trends across the extensive documentation. The complexity of legal language in regulatory filings created additional barriers to understanding, as standard sentiment analysis tools struggled with double negatives and contextual references common in legal writing. With strategic decisions dependent on timely insights from this public feedback, the company urgently needed a solution that could transform raw regulatory comments into actionable intelligence.

Eliassen Delivered

- Developed a comprehensive AI platform that automatically collected and analyzed regulatory filings using specialized natural language processing models
- Created custom sentiment analysis engines calibrated for legal and regulatory language
- Implemented advanced commenter identification algorithms to recognize patterns from influential submitters
- Built interactive dashboards visualizing sentiment trends, geographic patterns, and emerging themes
- Deployed an integrated solution on Microsoft Azure using OpenAI, Fabric, and Power BI

Business Outcome/Accomplishments

- Reduced regulatory analysis time by 85% while increasing information accuracy and completeness
- Enabled data-driven strategic decision-making with real-time insights into public perception
- Identified previously unrecognized stakeholder networks and influence patterns
- Provided early warning on emerging opposition arguments and regulatory challenges
- Delivered analysis of 1,700+ formal filing documents with minimal human intervention

Technologies Utilized

- Azure OpenAI Service
- Power BI
- Microsoft OneLake
- Custom Sentiment Models
- Microsoft Fabric
- Azure Data Factory
- Python NLP Libraries