

Scalable Fake News Detection with LLM-Explainability

Leveraging Big Data and GenAI, we fine-tune a pre-trained Transformer to detect fake news at scale, using LLMs to:

- Explain predictions
- Validate credibility
- Highlight signals of deception or truth



Major Challenges of Fake News Detection



Complexity of Language and Context



Large Volume and Scale of Data



Evolving tactics & language pattern

Advantages of Fake News Detection with Big Data



Large-Scale Data Collection & Processing

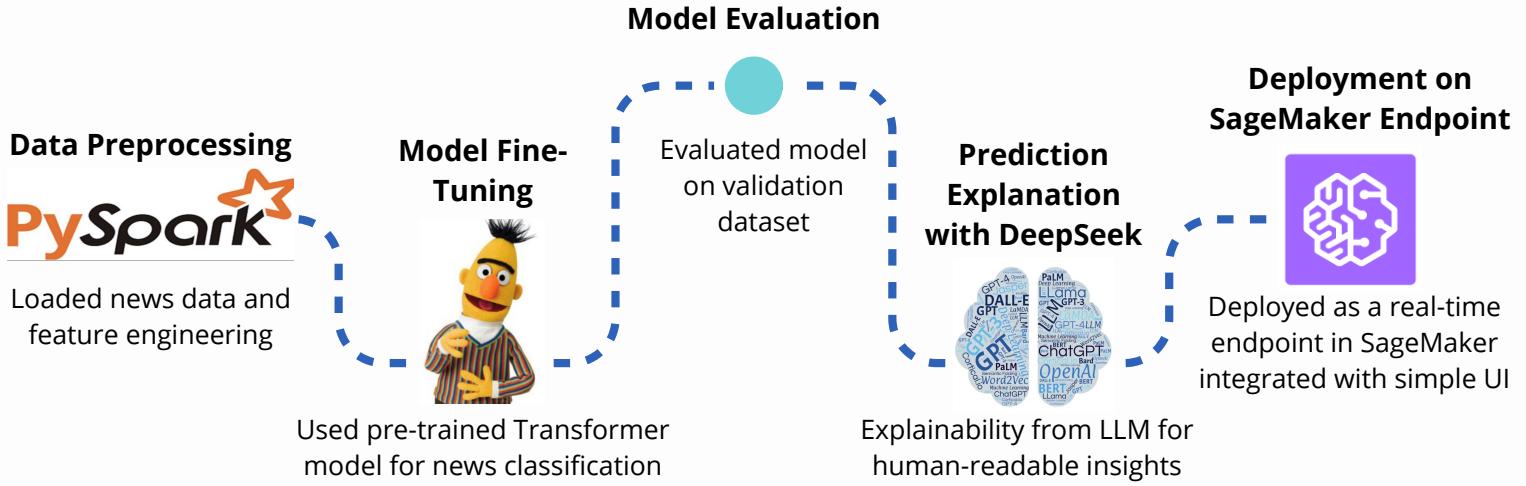


Cloud-Based & Distributed Processing

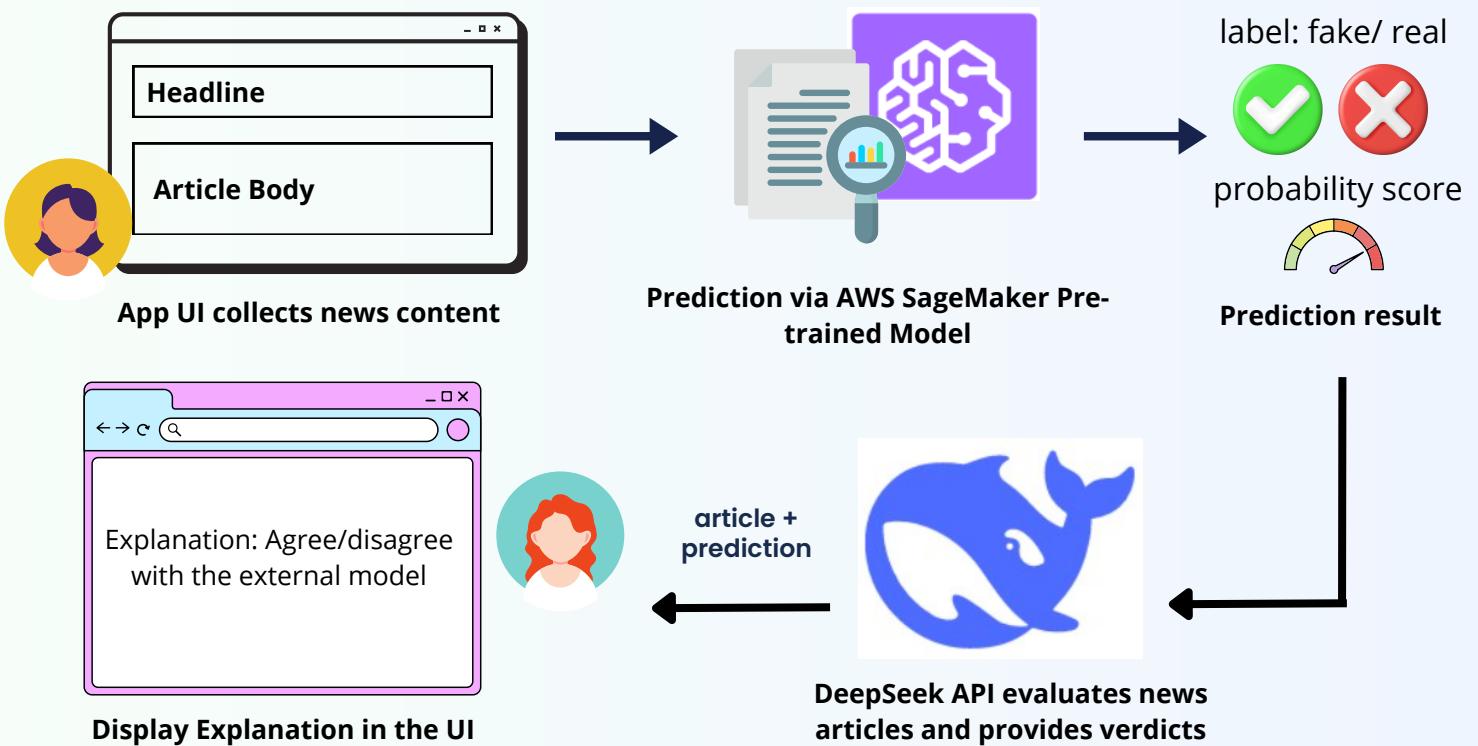


Enhanced Contextual Understanding

BERT-Based Fake News Detection Workflow



Fake News Detector with LLM-Powered Explainability



Application of Fake News Detection



Media



Social Media



Journalism



Government



Aakash Patil



Dylan Perreault



Prakrit Sinha



Samuel Neal



Sirui Luo



Zafrin Ahmed

