



NewsBot Intelligence System 2.0

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Core Features

- Classifies news (Politics, Sports, Tech, Business, etc.)
- Topic modeling — finds key themes across articles
- Summarizes long articles into short overviews
- Semantic search — find relevant articles by meaning
- Multilingual support & translation
- Conversational querying — “find me X”

System Architecture

- Input: raw news articles (any language)
- Preprocessing & Translation → Clean English text
- NLP Modules: Classification ,TF, Topic Model, Summarizer, Embeddings + Search, Sentiment
- Output: Structured insights (category, summary, sentiment, entities) or search results

Example Outputs

- Sample classification accuracy
- Example topic: “AI / technology trend” identified by topic modeling
- Example summary of a long article
- Quick semantic search result: relevant article match