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**International Conference on Communication, Devices and Networking :
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1 message

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Track Name: ICCDN2026

Paper ID: 136

Paper Title: Automated Crawling, Categorization and Sentiment Analysis of Regional News with an Integrated Feedback System

Abstract:

We present a full-stack system that crawls regional news (12,000+ items), clusters and labels articles for departmental routing, performs classification using a DistilBERT-based department predictor [1], and generates sentiment scores using a RoBERTa pipeline [2]. The system integrates with a Django backend [3] and a Next.js/Tailwind frontend [4], [5] to display organized news and to send alerts for negative items. This paper describes design decisions, data preparation, modeling, evaluation where available (DistilBERT accuracy 83% as reported in the project notes), and deployment considerations. We include a TikZ diagram of the processing pipeline and tables that reflect repository artifacts and dataset statistics.

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Secondary Subject Areas: Not Entered

Submission Files:

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Submission Questions Response: Not Entered

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