

Newsletter-Factory: A Thematic Newsletter Generation Tool for Business Insights

- Newsletter:
 - Periodic publication of news
 - Based on a specific **theme**
 - Personalized **stories**
- Benefits for enterprises:
 - Track evolving business & tech.
 - Contribute to **success & growth**
 - Reduce information overload
- Newsletter-Factory Tool:
 - **Automation** tool
 - **Near-duplicate** detection
 - **Metadata** classification
 - Fine-grained classification using **sub-categories**
 - Human-in-the-loop for quality check and **model improvement**

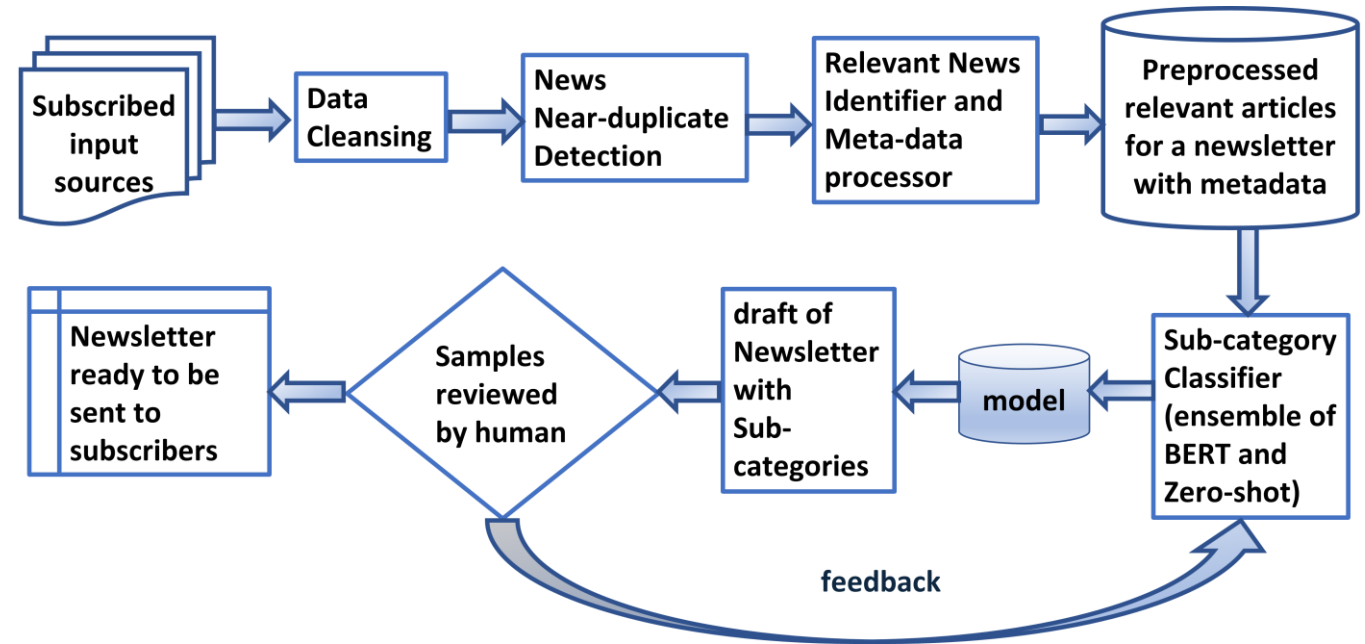
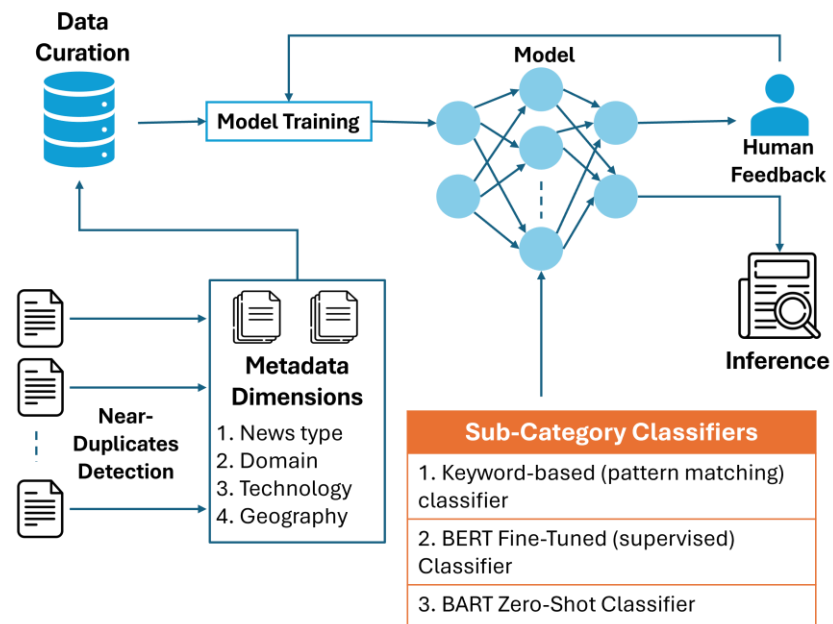


Figure: High-level block diagram of key components in Newsletter-Factory

Key Components of Newsletter-Factory Tool

- Near-duplicate detection and handling
 - Locality Sensitive Hashing
 - MinHash and Shingling
- Metadata classification
 - Pattern-based categorizers
 - ML classifiers
 - Identify **newsletter theme**
- Sub-category classification
 - **Keyword-based classifier**
 - **Adapter fine-tuned BERT classifier**
 - **BART zero-shot classifier**
- Human-in-the-loop
 - Inspection of draft
 - Ability to provide **feedback**
 - **Model improvement** using feedback



News Article

QNu Labs Secures \$6.5 Million In Funding. QNu Labs closed a \$6.5 million funding Pre-Series A1. The round was led by Ashish Kacholia of Lucky Investments, along with Speciale Invest and a family fund. The startup offers quantum and post-quantum cryptography solutions based on patented technology.

News type	Financial Reporting
Domain	Multidomain Applications of IT, Banking Finance Insurance
Technology	Quantum Computing
Geography	Others

Predictions for Sub-Categories

- i. Finance & Reporting
- ii. Industry-BFSI
- iii. Capital Markets & Investment Banking
- iv. Startups Funding Acceleration
- v. Security,
- vi. Technology Development
- vii. Securitisation

Figure: Illustrative example of sub-category classification step for enrichment of raw news data

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Building on belief