

Introduction to Text Analytics for Social Media Chatter

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What is Natural Language Processing?



- Process information in the form of natural language or texts
- Combination of Linguistics, Cognitive Science, Statistics
- Enables machines to interact with humans like humans!

Hi!
BONJOUR
HOLAI



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Why Social Media Analysis?

Volume
velocity
variety

- A plethora of data, increasing every second
- Individuals and organizations - conversations contain usable information
- It is a two-way street! Bi-directional communication is facilitated by Social Media



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Follow

Types of Social Media Platforms

*not limited to...



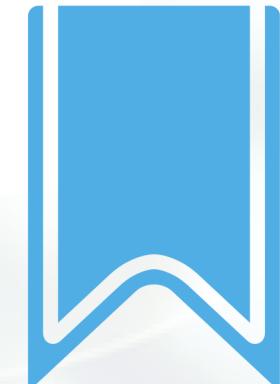
Social networks



Blogs / Microblogs



Discussion Forums



Social bookmarks

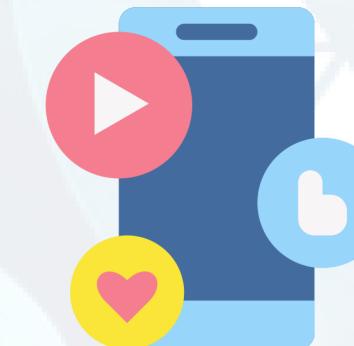
Wiki Projects



Social News



Media Sharing



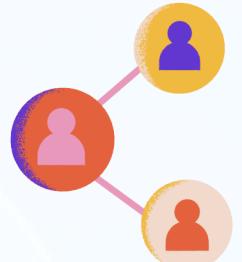
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NLP Tasks for Social Media

*not limited to



- Classification and Clustering
 - Behavior analysis
 - Event detection
 - Customer Segmentation
 - User Modeling
 - Topic Modeling
 - Trends
- Opinion Mining
 - Sentiment, Emotion
 - Sarcasm
- Relationship Extraction
- Named Entity Recognition
- Language Identification and Translation
- Text Summarization
- Content filtering
 - Hate speech, violence, harassment
 - Spams and scams
 - Inappropriate content
 - Rumour Detection



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Application of Social Media Analysis

**not limited to*



- All Industries
 - Business Intelligence
 - Recruitment
- Healthcare
 - Mental Health
 - Suicide Prevention
- Defense and security
- Media, Journalism, and Social News
- Marketing
- Finance
- Politics
- Environmental, Social & Governance (ESG)
 - Disaster Management and Recovery
 - Policy Analysis



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NLP is Hard



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NLP for Social Media is Harder



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Social Media Data

Where to find it?



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Social Media Data

NLP Techniques to Process it



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Social Media Data

NLP Techniques to Process it



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