



**Universidade Federal do Ceará – UFC**  
**Centro de Ciências – CC**  
**Mestrado e Doutorado em Ciências da Computação - MDCC**  
**Estruturas de Dados**

Exercício: Leitura e Crítica de Artigos Científicos

Objetivos: Exercitar a leitura e a crítica de artigos científicos que utilizam estruturas de dados.

Data da Entrega: A partir do dia 18/11/2025

OBS 1: Exercício Individual.

OBS 2: A entrega da lista deverá ser executada utilizando o SIGAA.

NOME: \_\_\_\_\_MATRÍCULA: \_\_\_\_\_

### **Questão 1**

Apresentar e realizar uma análise crítica de um dos artigos a seguir:

- Multimodal misinformation detection based on the multi-granularity consistency
- Global Patterns of Viral Content on WhatsApp
- Tri-Algo guardian ensemble approach for fake news detection in social media
- Fake News Detection using NLP–AI's Role in Combating Misinformation
- Contrastive Multi-Knowledge Graph Learning for Fake News Detection
- Benchmarking Hook and Bait Urdu news dataset for domain-agnostic and multilingual fake news detection using large language models
- Fake news detection using Hashtag context
- IMRRF: Integrating Multi-Source Retrieval and Redundancy Filtering for LLM-based Fake News Detection
- Fake News Buster: AI-Driven Detection and Elimination of Misinformation
- FMNV: A Dataset of Media-Published News Videos for Fake News Detection
- Assessing the Potential of Generative Agents in Crowdsourced Fact-Checking
- DIS2DIS: Explaining Ambiguity in Fact-Checking
- A Rumor Dissemination Control Model Based on Evolutionary Game and Multiple User States
- Mitigating Misinformation Sharing on Social Media through Personalised Nudging
- CAMOUFLAGE: Exploiting Misinformation Detection Systems Through LLM-driven Adversarial Claim Transformation
- A longitudinal analysis of misinformation, polarization and toxicity on Bluesky after its public launch
- Characterizing AI-Generated Misinformation on Social Media
- Feature computation procedure for fake news detection: an LLM-based extraction approach
- LLM-Generated Fake News Induces Truth Decay in News Ecosystem: A Case Study on Neural News Recommendation

- Is it fake or not? A comprehensive approach for multimodal fake news detection
- I'll believe it when I see it: Images increase misinformation sharing in Vision-Language Models
- Simulating the Effects of Multi-platform Use on Misinformation Diffusion and Countermeasures
- Robustness Evaluation of Graph-based News Detection Using Network Structural Information
- AI-Driven Framework for Evaluating Climate Misinformation and Data Quality on Social Media
- Leveraging word embeddings for enhanced fake news detection
- Enhancing fake news detection in WhatsApp using Bayesian interconnection network
- Is LLM an Overconfident Judge? Unveiling the Capabilities of LLMs in Detecting Offensive Language with Annotation Disagreement
- Few Labels with Active Learning: From Weak to Strong Labels for Misinformation Detection
- Tracing Bias for Fairer Content-Based Misinformation Detection
- A Methodology Framework for Analyzing Health Misinformation to Develop Inoculation Intervention Using Large Language Models: A case study on covid-19
- WaLLM--Insights from an LLM-Powered Chatbot deployment via WhatsApp
- Structural Dynamics of Harmful Content Dissemination on WhatsApp
- T2Agent A Tool-augmented Multimodal Misinformation Detection Agent with Monte Carlo Tree Search
- Debate-to-Detect: Reformulating Misinformation Detection as a Real-World Debate with Large Language Models
- Evidence-Grounded Multimodal Misinformation Detection with Attention-Based GNNs
- From Generation to Detection: A Multimodal Multi-Task Dataset for Benchmarking Health Misinformation
- A fuzzy-based multimodal approach for interpretable fake news detection
- Unraveling Misinformation Propagation in LLM Reasoning
- An adaptive auto fusion with hierarchical attention for multimodal fake news detection
- CMIE: Combining MLLM Insights with External Evidence for Explainable Out-of-Context Misinformation Detection
- Combatting Misinformation: Leveraging Machine Learning Ensemble Methods for Fake
- Is LLM an Overconfident Judge? Unveiling the Capabilities of LLMs in Detecting Offensive Language with Annotation Disagreement
- Quantifying Truthfulness: A Probabilistic Framework for Atomic Claim-Based Misinformation Detection
- Combatting Misinformation: Leveraging Machine Learning Ensemble Methods for Fake News Detection
- How does Misinformation Affect Large Language Model Behaviors and Preferences?

- M3DUSA: A Modular Multi-Modal Deep fUSion Architecture for fake news detection on social media
- Toward a Capture-Track-Respond Framework: A Survey of Data-Driven Methods for Countering LLM-Generated Misinformation
- A Methodology Framework for Analyzing Health Misinformation to Develop Inoculation Intervention Using Large Language Models: A case study on covid-19
- Leveraging word embeddings for enhanced fake news detection
- MTLFND: Multimodal fake news detection using attention mechanism and transfer learning
- Duped by bots: why some are better than others at detecting fake social media personas
- Unified Large Language Models for Misinformation Detection in Low-Resource Linguistic Settings
- Truth over Tricks: Measuring and Mitigating Shortcut Learning in Misinformation Detection
- Goal-Aware Identification and Rectification of Misinformation in Multi-Agent Systems
- Multi-Feature Classification for Fake News Detection using Multiscale and Atrous Convolution-based Adaptive Temporal Convolution Network
- CAMFND: Cross-modal adaptive-aware learning for multimodal fake news detection
- Uma Abordagem Baseada em LLMs para Análise de Desinformação sobre Vacinas
- From Fake News to Real Protests: WhatsApp's Role in Brazilian Political Coordination
- A Sticker is Worth a Thousand Words: Characterizing the Use and Abuse of Stickers on WhatsApp Political Groups in Brazil
- EXPRESS: Solutions and Challenges for Addressing Misinformation
- Feature computation procedure for fake news detection: an LLM-based extraction approach
- A Sticker is Worth a Thousand Words: Characterizing the Use and Abuse of Stickers on WhatsApp Political Groups in Brazil
- Accidental Spreaders: How Different Roles Interact During Misinformation Discussions
- Information Suppression in Large Language Models: Auditing, Quantifying, and Characterizing Censorship in DeepSeek
- A BERT-Based Multimodal Framework for Enhanced Fake News Detection Using Text and Image Data Fusion
- Fake news detection with external entity expanding and multi-modal dynamic fusion
- Paper fake news detection using large language models
- Improving accuracy in fake news detection using enhanced support vector machine algorithm over convolutional neural network
- Analysing health misinformation with advanced centrality metrics in online social networks

- IMFND: In-context Multimodal Fake News Detection with large visual-language models
- Navigating the complexity of visual misinformation: Developing the Visual Misinformation Processing Model for visual-text misinformation dynamics
- Circumventing Misinformation Controls: Assessing the Robustness of Intervention Strategies in Recommender Systems
- Personalizing LLM Responses to Combat Political Misinformation
- Ensemble-Based Framework for Fake News Detection in Social-Media
- M3DUSA: A Modular Multi-Modal Deep fUSion Architecture for fake news detection on social media
- How does Misinformation Affect Large Language Model Behaviors and Preferences?
- FLAG: Fraud Detection with LLM-enhanced Graph Neural Network
- TIP: Predicting Tipping for User-Centered Misinformation Prevention
- Beyond just saying it's false: explainable AI for multimodal misinformation detection
- Reducing Misinformation Credibility: How Explanations Impact the Effectiveness of Social Media Warning Labels and Fact-Checking Source Recall
- Hierarchical cross-modal interaction network for multimodal fake news detection
- Generating Grounded Responses to Counter Misinformation via Learning Efficient Fine-Grained Critiques
- A unified cross-source context enhancement model for multi-source fake news detection
- Navigating Misinformation
- Mitigating Health Misinformation Through Human-AI Collaboration
- AI-Driven Framework for Evaluating Climate Misinformation and Data Quality on Social Media. Future Internet 2025, 17, 231
- LLM in the Loop: Creating the PARADEHATE Dataset for Hate Speech Detoxification
- Common Corpus: The Largest Collection of Ethical Data for LLM Pre-Training
- CoST: Comprehensive structural and temporal learning of social propagation for fake news detection
- Query-Decision Regression for Misinformation Prevention in Social Networks
- A Modular Taxonomy for Hate Speech Definitions and Its Impact on Zero-Shot LLM Classification Performance
- Benchmarking Machine Learning and Deep Learning Models for Fake News Detection Using News Headlines
- Multi-Agent Retrieval-Augmented Framework for Evidence-Based Counterspeech Against Health Misinformation
- Truth in the Age of Clickbait: A Review of Social Media Misinformation Through Case Studies
- Navigating Misinformation
- Misinformation sharing and how to combat it
- Towards Reliable Fake News Detection: Enhanced Attention-Based Transformer Model

- A Survey on Proactive Defense Strategies Against Misinformation in Large Language Models
- Remember Past, Anticipate Future: Learning Continual Multimodal Misinformation Detectors
- Towards Explainable Bilingual Multimodal Misinformation Detection and Localization
- Unmasking Fake News: A Naïve Bayes Classifier Approach to Combat Misinformation
- Unique multimodal fusion network for fake news detection in social media with attention mechanism
- Detecting Fake News in Social Media: An Approach Utilizing Machine Learning to Uncover Disinformation
- Tracing truth: dynamic temporal networks for multi-modal fake news detection
- Classificação Binária de Textos Abusivos e Mitigação de Viés Utilizando Aprendizado Profundo
- MCDF: Multimodal information fusion and causal analysis for election misinformation detection
- Semantic knowledge graph fusion for fake news detection: Unifying content-based features and evidence-based analysis in the COVID-19 infodemic
- SoK: Machine Learning for Misinformation Detection
- MisinfoTeleGraph: Network-driven Misinformation Detection for German Telegram Messages
- Debunk and Infer: Multimodal Fake News Detection via Diffusion-Generated Evidence and LLM Reasoning
- Evaluating the Simulation of Human Personality-Driven Susceptibility to Misinformation with LLMs
- Robustness of Misinformation Classification Systems to Adversarial Examples Through BeamAttack
- A unified cross-source context enhancement model for multi-source fake news detection
- An Unsupervised Fake News Detection Framework Based on Structural Contrastive Learning
- Overview of ROMCIR 2025: The 5th Workshop on Reducing Online Misinformation through Credible Information Retrieval
- Evaluating the Impact of LLM-Manipulated Content on Fake News Detection
- Truth in the Age of Clickbait: A Review of Social Media Misinformation Through Case Studies
- Leveraging Language Modeling and Dynamic Social Network Analysis to recognize Patterns in the Spread of COVID-19 Misinformation Narratives on Social Media
- Combating Biomedical Misinformation through Multi-modal Claim Detection and Evidence-based Verification
- KEN: Knowledge Augmentation and Emotion Guidance Network for Multimodal Fake News Detection

- Caracterização e avaliação do controle de acesso dos servidores do Discord para o público infantil e adolescente
- Detecção de Discursos Racistas em Português na Rede Social X
- User Comment-Guided Cross-Modal Attention for Interpretable Multimodal Fake News Detection
- Fathom: A fast and modular RAG pipeline for fact-checking
- SANCTUARY: An efficient evidence-based automated fact checking system
- BCGH-Net: A Hierarchical Neural Framework for Fake News Detection Using BERT and Attention Fusion
- HierDaC: Detecting Long-Text Misinformation via Hierarchical Divide-and-Conquer
- EuroVerdict: A Multilingual Dataset for Verdict Generation Against Misinformation
- Exploring the Impact of Instruction-Tuning on LLM's Susceptibility to Misinformation
- Generate First, Then Sample: Enhancing Fake News Detection with LLM-Augmented Reinforced Sampling
- TripleFact: Defending Data Contamination in the Evaluation of LLM-driven Fake News Detection
- Toward Verifiable Misinformation Detection: A Multi-Tool LLM Agent Framework
- Multi-Agent Retrieval-Augmented Framework for Evidence-Based Counterspeech Against Health Misinformation
- Network Prebunking Problem: Optimizing Prebunking Targets to Suppress the Spread of Misinformation in Social Networks
- Explain further: multi-level explanations for fake news detection using large language models
- Addressing Ethical Challenges in LLMs: Bias and Misinformation
- Misinformation detection on online social networks using pretrained language models
- Fake News Detection Using Machine Learning and the Training of Models in Python
- Fake news detection based on BERT and CNN techniques
- Agent-Based Exploration of Recommendation Systems in Misinformation Propagation
- Optimizing prompt efficacy in large language models for fake news detection via evolutionary algorithm-based feature selection
- Detecting and Summarizing Narratives in the Information Environment: A Case Study of Misinformation and Disinformation Campaigns
- A Comparative Analysis of Fake News Detection Techniques: A Case Study on Disinformation During the COVID-19 Pandemic
- How to Mitigate Misinformation Diffusion on Blockchain-Based Decentralized Social Network Platforms? Insights From an Agent-Based Simulation Model
- Ranking for Engagement: How Social Media Algorithms Fuel Misinformation and Polarization

- NLP for Counterspeech against Hate and Misinformation (CSHAM)
- MLGNN: a metric learning and graph neural network based approach for fake news detection in online social networks
- Dual stream graph augmented transformer model integrating BERT and GNNs for context aware fake news detection
- Social Media Privacy and Security: Stacking and Boosting for Misinformation Detection
- Misinformation detection on online social networks using pretrained language models
- GenAI Misinformation, Trust, and News Consumption: Evidence from a Field Experiment
- A simple contrastive embedding framework for low-resource fake news detection
- Performance of Large Language Models (LLMs) in the Cognitive Analysis of Misinformation: Evaluation Study
- Fake News Detection: Intelligent Fact-Checking Based on Relational Similarity and Confidence Score in Knowledge Graph
- Stop Rumors Fast: A Multi-Objective Blocking Approach with Deep Reinforcement Learning in Social Networks
- Fake News Detection Using Machine Learning and the Training of Models in Python
- Misinformation detection on online social networks using pretrained language models
- A simple contrastive embedding framework for low-resource fake news detection
- EC-Fake: A Fake News Detection Model based on External Knowledge and Contrast-driven Feature Augmentation
- Drifting Away from Truth: GenAI-Driven News Diversity Challenges LVLM-Based Misinformation Detection
- Prompt-Induced Linguistic Fingerprints for LLM-Generated Fake News Detection
- E-CaTCH: Event-Centric Cross-Modal Attention with Temporal Consistency and Class-Imbalance Handling for Misinformation Detection
- Unsupervised fake news detection on social media using hybrid Gaussian Mixture Model
- Insight Rumors: A Novel Textual Rumor Locating and Marking Model Leveraging Att\_BiMamba2 Network
- Effective Science Communication and Countering Misinformation
- Addressing the Information Asymmetry of Fake News Detection Using Large Language Models and Emotion Embeddings
- Skeptik: A Hybrid Framework for Combating Potential Misinformation in Journalism
- EC-Fake: A Fake News Detection Model based on External Knowledge and Contrast-driven Feature Augmentation
- Stop Rumors Fast: A Multi-Objective Blocking Approach with Deep Reinforcement Learning in Social Networks
- The Discussions of Monkeypox Misinformation on Social Media

- Simulating Misinformation Diffusion on Social Media Through CoNVal: A Textual-and Agent-Based Diffusion Model
- Tracing the 2024 US election debate on Telegram with LLMs and graph analysis
- Detecting and Countering Misinformation Through NLP-Based Approach for Fake News Detection
- Mapping the Infodemic: Geolocating Reddit Users and Unsupervised Topic Modeling of COVID-19-Related Misinformation
- Humor, Art, or Misinformation?": A Multimodal Dataset for Intent-Aware Synthetic Image Detection
- Addressing data scarcity in multilingual fake news detection: an LLM-based dataset augmentation approach
- Riscos de Privacidade em Dados de Saúde: Investigando Inferência de Atributos Sensíveis de Cidadãos no DATASUS
- O Combate a Desinformação nas Plataformas Digitais: Desafios e Oportunidades
- Designing Effective AI Explanations for Misinformation Detection: A Comparative Study of Content, Social, and Combined Explanations
- TRUST-VL: An Explainable News Assistant for General Multimodal Misinformation Detection
- Fake News Detection Using Bi-LSTM Architecture: A Deep Learning Approach on the ISOT Dataset
- ARAFA: An LLM Generated Arabic Fact-Checking Dataset
- Fake news detection using hybrid machine learning techniques
- Fake news detection using passive aggressive classifier
- Fake news detection using machine learning approaches
- External information-augmented contrastive learning framework for fake news detection
- MAGNet: A multimodal knowledge-augmented graph network for early-stage misinformation detection
- Enhancing Health Fact-Checking with LLM-Generated Synthetic Data
- Enhancing Interventions Against Misinformation Propagation in Social Networks
- Investigating Fake News Detection Using
- AA Alhaj, O Safwat, Y Ghoneim, I Zualkernan... - Proceedings of Tenth International ...
- Investigating different perspectives on exposure in mobility datasets
- L Félix, AJ Kouam, AC Viana, N Achir, JM Almeida - 2025
- Characterizing User Exposure in Mobility Data: Insights from Varying User Behavioral Profiles
- Identificação de desinformação em áudio dentro de grupos públicos do aplicativo whatsapp
- MedTok or MythTok? Classifying Health Misinformation on TikTok with AI
- E Andrikopoulou, N Talam, A Kanta - Good Evaluation-Better Digital Health, 2025
- Towards Unified Multimodal Misinformation Detection in Social Media: A Benchmark Dataset and Baseline
- ProFNSE: propagation dynamics-derived fake news detection in social networks: F. You et al.



- A Multi-Layered Approach for Combatting Misinformation on Online Social Media
- FAKE NEWS DETECTION USING NOVEL GAN BASED TECHNIQUE
- Toward a Safer Web: Multilingual Multi-Agent LLMs for Mitigating Adversarial Misinformation Attacks
- Is Misinformation More Open? A Study of robots. txt Gatekeeping on the Web
- Group-Adaptive Adversarial Learning for Robust Fake News Detection Against Malicious Comments
- The Credibility Dilemma in OSNs: Credible Sources as Both Vector and Vaccine for Misinformation
- Benchmarking Evidence-Augmented Large Language Models for Misinformation Fact-Checking: An Information Systems Perspective on Scale and Augmentation
- Debunk Lists as External Knowledge Structures for Health Misinformation Detection with Generative AI
- Pretrained transformers for multimodal fake news detection: Explainability using SHapley Additive exPlanations for contributions from text, image, and image captions
- Designing and Evaluating a Community Fact-Checking System for WhatsApp
- Let's dismiss the term 'fake news' to combat misinformation
- External information-augmented contrastive learning framework for fake news detection
- Who Drives Misinformation? Key Node Detection with Heterogeneous Graph
- Combating health misinformation with fusion-based credible retrieval techniques
- Too Focused on Accuracy to Notice the Fallout: Towards Socially Responsible Fake News Detection
- Fake News Detection in Online Social Networks Using Machine Learning and Deep Learning Techniques
- WhatsViral: A Privacy-Preserving System for Studying Viral Content on WhatsApp
- Explainable Multilingual and Multimodal Fake News Detection: Towards Robust and Trustworthy AI for Combating Misinformation
- Leveraging LLMs for Identifying types of Misinformation on Reddit
- Fake news detection based on shared information and cross-feature ambiguity learning
- Disinformation detection: An evolving challenge in the age of llms
- Misinformation Detection using Large Language Models with Explainability
- Minimizing the Spread of Misinformation using Random Influence Subgraph Sampling
- Gender Bias in Portuguese Literary Texts: A Masked Language Model Approach
- LLMs no Combate à Desinformação: A Influência do Tamanho do Modelo na Detecção de Fake News no Brasil
- Explainable Multilingual and Multimodal Fake News Detection: Towards Robust and Trustworthy AI for Combating Misinformation
- Trustworthy AI and the governance of misinformation: policy design and accountability in the fact-checking system
- A text-based hybrid transfer learning model for ternary classification in health misinformation detection

- O “milagre” do Ozempic® eo algoritmo da magreza: desinformação e performatividade no Tik Tok
- Attacks by Content: Automated Fact-checking is an AI Security Issue
- ZoFia: Zero-Shot Fake News Detection with Entity-Guided Retrieval and Multi-LLM Interaction
- Learn and unlearn: Addressing misinformation in multilingual llms
- MPCG: Multi-Round Persona-Conditioned Generation for Modeling the Evolution of Misinformation with LLMs
- SSA: Semantic contamination of LLM-driven fake news detection
- MisinfoBench: A Multi-Dimensional Benchmark for Evaluating LLMs' Resilience to Misinformation
- Metadata-Free Rumor Detection via LLM-Augmented Reasoning
- Caracterização da (Des) Informação das Narrativas sobre Vacinação em Grupos Públicos no WhatsApp no Brasil
- I'm not Welcome Here—Uma Revisão de Escopo sobre Toxicidade e Discurso de Ódio em Jogos Digitais
- O Fenômeno da Desinformação no WhatsApp, Telegram e Outras Plataformas de Mensagens Instantâneas: Uma Revisão Sistemática da Literatura
- MMM-Fact: A Multimodal, Multi-Domain Fact-Checking Dataset with Multi-Level Retrieval Difficulty
- Interpretable Fake News Detection Using
- Emergent Coordinated Behaviors in Networked LLM Agents: Modeling the Strategic Dynamics of Information Operations
- Child Sexual Abuse Datasets: A Systematic Review
- Quantificando Polarização, Coesão e Permeabilidade na Câmara dos Deputados do Brasil
- A Misoginia no YouTube Brasileiro: Um Estudo de Caso sobre o Conteúdo Produzido pela Comunidade Red Pill
- ESEN: Evidence-aware Semantic Enhancement Network for Fact-checking Fake News Detection
- Fake News Detection Using Explainable Artificial Intelligence
- How the hesitation mechanism suppresses misinformation spreading on time-varying networks
- Enhancing fake news detection through estimating user tendencies to spread fake news
- OFFSIDE: Benchmarking Unlearning Misinformation in Multimodal Large Language Models
- LAMBERT: An Integrated Framework for Misinformation Detection using Streamlit Application
- Toxicity Begets Toxicity: Unraveling Conversational Chains in Political PodcastsAtaques de Flooding

A avaliação deste trabalho se dará em duas etapas:

1ª. Apresentação: Cada estudante irá apresentar o artigo estudado.

2ª. Avaliação dos Slides:

A avaliação do trabalho irá envolver os seguintes quesitos:

- Qualidade e organização da apresentação;
- Clareza da descrição das atividades realizadas e dos resultados obtidos;
- Domínio do Tema;

PS. Não serão aceitos trabalhos que não forem apresentados (por meio de vídeo disponibilizado no Youtube).

PS. Cada estudante será responsável pela disponibilização do ambiente (software e hardware) necessário para a gravação da apresentação do seu trabalho.

“Não me peça que eu lhe faça uma canção como se deve  
Correta, branca, suave, muito limpa, muito leve  
Sons, palavras, são navalhas  
E eu não posso cantar como convém  
Sem querer ferir ninguém”.

**Belchior**