User Manual: VERIFACT

Welcome to VERIFACT!

VERIFACT is your go-to AI-powered solution to combat fake news. Designed with state-of-the-art machine learning techniques, VERIFACT empowers users to verify the authenticity of news articles and social media content. By ensuring access to trustworthy information, VERIFACT fosters credibility, trust, and informed decision-making.

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1. Getting Started

Step 1: Setup and Access

- Download the VERIFACT app or visit the plugin development.

- Grant necessary permissions for accessing your content.

Step 2: Input Data

- Input the news article URL or copy-paste the text of social media posts.

- Click "Analyze" to begin the verification process.

2. Key Features

AI-Powered Authenticity Analysis

- Quickly verify if content is authentic, fake, or misleading.

- Get instant results with credibility scores.

Detailed Reports

- Understand the reasons behind the analysis with detailed breakdowns.

User-Friendly Interface

- Intuitive design for smooth navigation and fast analysis.

Collaborative Features

- Users can flag questionable content, contributing to a dynamic learning system.

3. User Personas

VERIFACT caters to diverse needs:

1. **John, 28 (Social Media Influencer)**: Ensures his posts maintain trust and credibility with his audience.

2. **Mike, 50 (Concerned Parent)**: Wants to provide reliable information access for his children.

3. **Prof. Johnson, 55 (University Lecturer)**: Encourages students to cite trustworthy sources.

4. How It Works

Input Content

- Users enter the text or upload files with articles/social media posts.

Analysis Engine

- Powered by algorithms such as Naive Bayes, SVM, and Neural Networks.

- Models process data and assign credibility scores.

Output

- Displays a score with a basic explanation of the result.

5. Technology Overview

- **Tools**: Visual Studio, Postman.

- **Languages**: Python, JavaScript, Flask.

- **Data Preprocessing**: Pandas, Numpy, NLTK, Doc2Vec.

- **Models Used**:

  - Naive Bayes

  - SVM

  - Decision Tree

  - Logistic Regression

  - Neural Networks

- **Platform**: TensorFlow/Keras for deep learning capabilities.

6. Frequently Asked Questions (FAQs)

Q: Can I trust VERIFACT's results?

A: Yes, VERIFACT uses reliable datasets and advanced algorithms to provide accurate results.

Q: What types of content are supported?

A: Articles, blog posts, and social media text.

Q: Can I suggest improvements?

A: Yes, user feedback helps us improve continuously.

7. Troubleshooting

Common Issues

1. **Slow Analysis**: Ensure your internet connection is stable.

2. **Inaccurate Results**: Try rephrasing or clarifying input text.

8. Customer Support

If you encounter any issues or have questions, contact us at: dpatel41@lion.lmu.edu