Detective AI User Manual

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1 Getting Started with Detective AI

1.1 Accessing the Application

Upon loading the Detective AI website, you will be presented with the landing page that introduces the application's AI content detection capabilities.

The homepage provides two main pathways:

- **Sign Up/Login**: Create an account for full functionality
- **Try Detective Basic**: Use limited features without registration

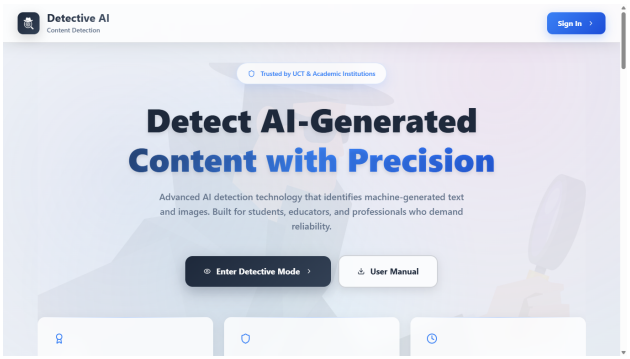


Figure 1: Detective-AI Landing Page

1.2 Quick Start Options

For immediate analysis without creating an account, click the "Detective Basic" button which will take you to a simplified interface where you can:

- Analyse text content for AI generation
- View results with confidence scores

For full functionality including submission history and export features, create an account using the registration process.

2 Account Management

2.1 Creating Your Account

To access Detective AI's complete feature set, registration is required:

1. Click "Sign Up" on the homepage
2. Fill in the registration form:
    - First Name and Last Name
    - Email Address
    - Username

- Password (requires uppercase, numbers, and special characters)
- Confirm Password

3. Submit the form and check your email for verification
4. Click the verification link to activate your account

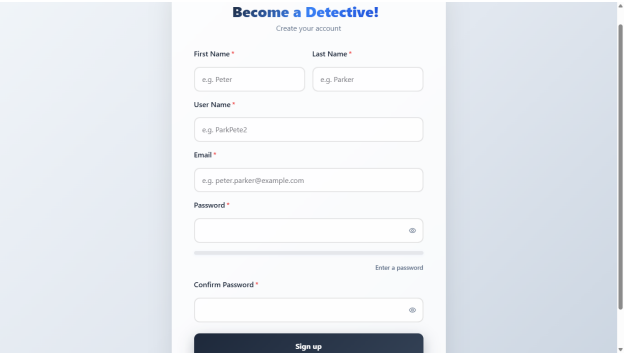


Figure 2: Detective-AI Registration Form

2.2 Logging In

Once your account is verified:

1. Navigate to the login page
2. Enter your username/email and password
3. Click "Login" to access the full Detective interface

If you forget your password, use the "Forgot Password" link to reset it via email.

3 Text Analysis Features

3.1 Submitting Text for Analysis

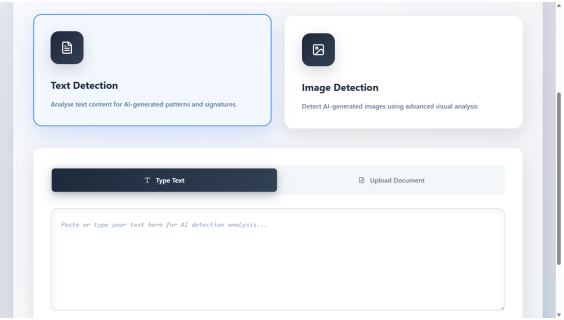
The text analysis feature can detect AI-generated written content through multiple input methods:

Direct Input:

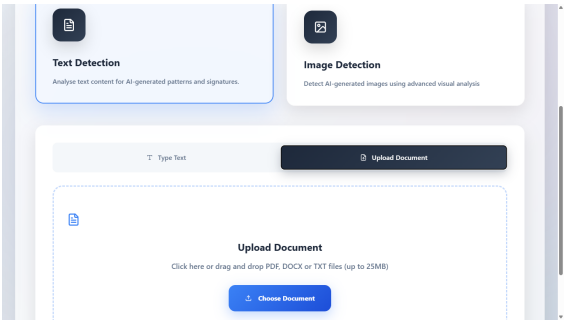
- Type or paste text directly into the analysis box
- Maximum limit: 5,000 characters per analysis

File Upload:

- Upload PDF or DOCX files
- The system will extract and analyse the text content



(a) Text Input Method



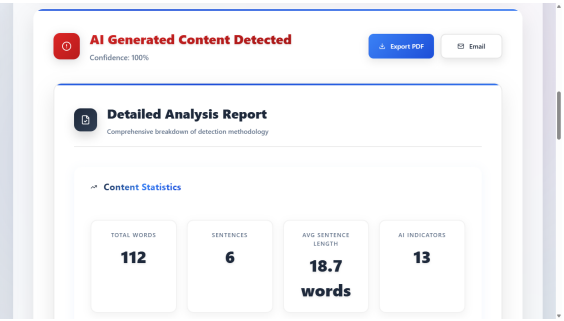
(b) File Upload Method

Figure 3: Detective-AI Text Analysis Input Options

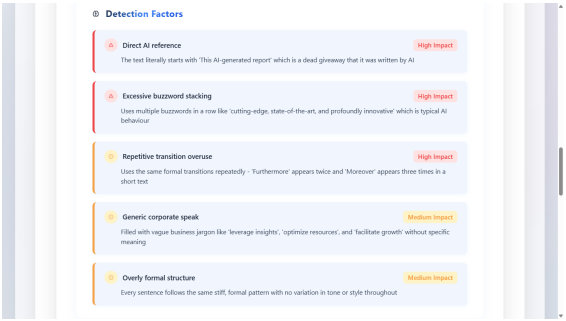
3.2 Understanding Text Results

After submitting text for analysis, you will receive:

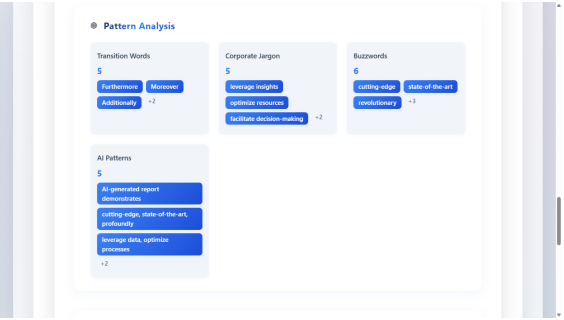
- **Confidence Score**: Percentage indicating likelihood of AI generation
- **Visual Indicators**: Color-coded results for quick interpretation
  - Green: Likely human-generated
  - Red: Likely AI-generated
- **Detailed Analysis**: AI-powered explanation of the reasoning behind the detection



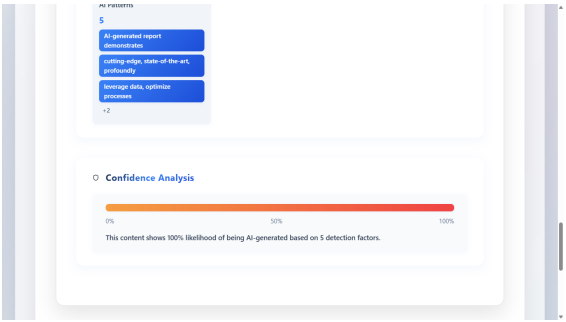
(a) Analysis Results & Stats



(b) Detection Factors



(c) Pattern Analysis



(d) Confidence Analysis

Figure 4: Text Analysis Results

4 Image Analysis Features

4.1 Uploading Images for Detection

Detective AI can analyse images to determine if they were generated by AI:

Supported Formats:

- JPG/JPEG files
- PNG files

Upload Process:

1. Select the "Image Analysis" option
2. Click "Choose File" or drag and drop your image
3. Click "analyse" to begin processing
4. Wait for results (processing may take up to 30 seconds)

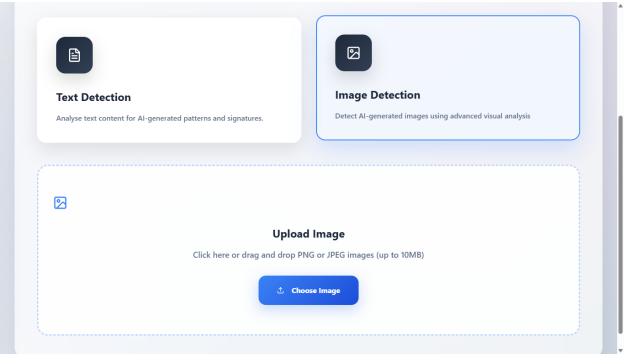
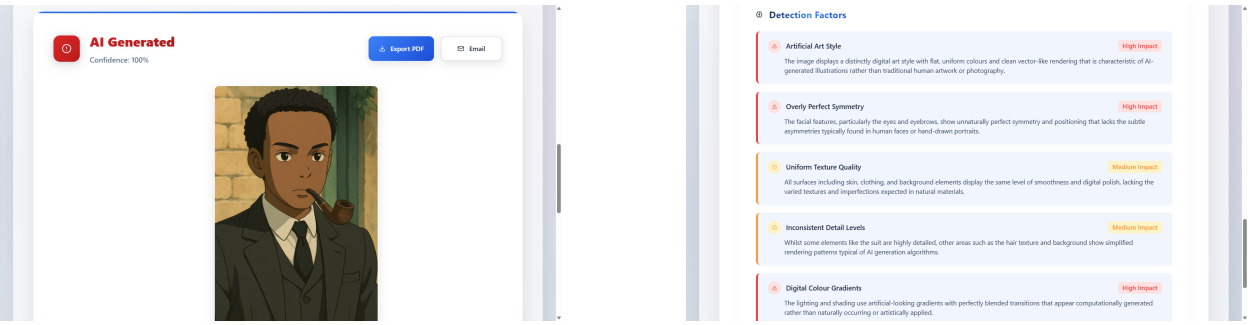


Figure 5: Image Upload Interface

4.2 Interpreting Image Results

Image analysis results include:

- **Probability Score**: Numerical confidence in AI detection
- **Detection Factors**: Explanation of detected patterns or artifacts



(a) Image Analysis Results & Confidence Score

(b) Image Analysis Detection Factors

Figure 6: Image Analysis Results

5 Submission History

5.1 Viewing Your Analysis History

Registered users can access a complete record of all their analyses:

1. Navigate to "Submission History" from the main menu
2. Browse through all your past text and image analyses
3. View submission details including date, type, and results

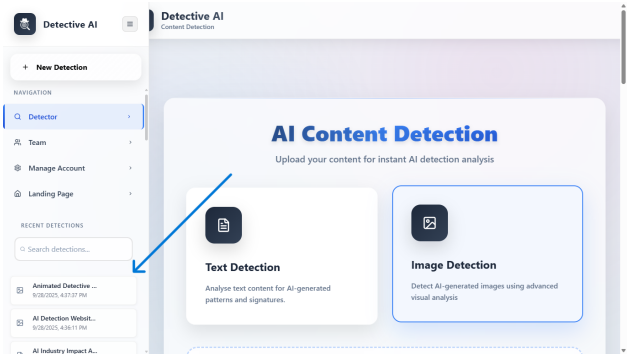


Figure 7: Submission History

5.2 Search and Filter Options

The submission history includes powerful search capabilities:

- **Search Bar**: Find submissions by title or content keywords
- **Date Filter**: Filter results by specific date
- **Content Type**: Filter by text or image submissions

5.3 Managing Your Submissions

For each submission in your history, you can:

- View detailed analysis results
- Export reports as PDF
- Email results to yourself
- Provide feedback on detection accuracy

6 Export and Sharing Features

6.1 PDF Export

Generate professional reports of your analysis results:

1. Select any submission from your history
2. Click "Export as PDF"
3. The system generates a comprehensive report including:
    - Analysis summary and confidence scores
    - Detailed explanations and reasoning
    - Timestamp and submission details
4. Download the PDF automatically to your device

6.2 Email Functionality

Share analysis results via email:

1. Choose "Email Report" from any submission
2. Formatted Report sent automatically to the user's inbox

7 Feedback System

7.1 Providing Analysis Feedback

Help improve Detective AI's accuracy by providing feedback on results:

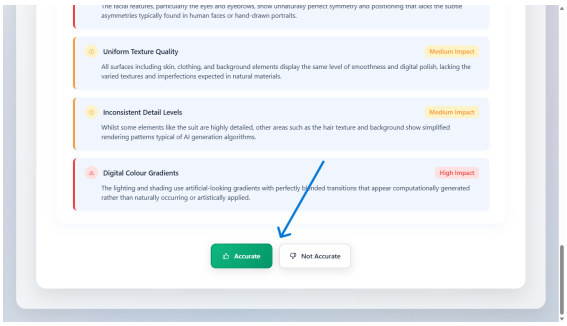
Rating System:

- Thumbs Up: Analysis was accurate
- Thumbs Down: Analysis was incorrect

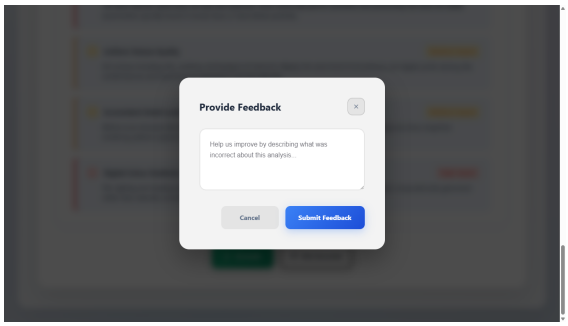
Detailed Comments:

- Explain why you agree or disagree with the results

- Provide context about the analysed content
- Suggest improvements for future analyses



(a) Feedback Buttons



(b) Feedback Modal

Figure 8: Feedback Interface

7.2 How Feedback Improves the System

Your feedback contributes to:

- Model refinement and accuracy improvements
- Better understanding of edge cases
- Enhanced explanation quality
- Overall system reliability

8 Tips for Best Results

8.1 Text Analysis Best Practices

To maximize accuracy of text detection:

- Submit complete sentences and paragraphs rather than fragments
- Ensure content is primarily in English
- Include sufficient context (longer texts generally provide better results)
- Avoid mixing multiple languages in a single analysis
- Use original, unmodified text when possible

8.2 Image Analysis Best Practices

For optimal image detection results:

- Use high-quality images with clear details
- Submit original files in their native format

- Avoid heavily compressed or degraded images
- Ensure images are not corrupted or damaged
- Use standard image formats (JPG, JPEG, PNG)

9 Understanding Detection Results

9.1 Confidence Score Interpretation

Detective AI provides confidence scores to help you understand result reliability:

- **90-100%**: Very high confidence in detection
- **70-89%**: High confidence, reliable results
- **50-69%**: Moderate confidence, consider additional context
- **30-49%**: Low confidence, results uncertain
- **0-29%**: Very low confidence, manual review recommended

9.2 When to Trust Results

Consider these factors when evaluating detection results:

- Higher confidence scores are generally more reliable
- Longer text samples provide better detection accuracy
- High-quality images yield more accurate results
- Context and domain knowledge should inform your interpretation

10 Troubleshooting

10.1 Common Issues and Solutions

Analysis Fails to Complete:

- Check internet connection stability
- Verify file format and size requirements
- Refresh the page and try again
- Clear browser cache if problems persist

File Upload Problems:

- Ensure file is in supported format (PDF, DOCX for text; JPG, JPEG, PNG for images)
- Check that file size is within limits

- Verify file is not corrupted or password-protected

Slow Performance:

- Allow up to 30 seconds for image analysis completion
- Try analysing during off-peak hours
- Reduce file size if possible
- Check system requirements and browser compatibility

Login or Account Issues:

- Verify email address and password accuracy
- Check spam folder for verification emails
- Use password reset feature if needed
- Ensure cookies and JavaScript are enabled

10.2 Browser Compatibility

Detective AI works best with modern browsers:

- Chrome 100+
- Firefox 100+
- Safari 15+
- Edge 100+

11 Technical Support

11.1 Getting Help

If you encounter issues not covered in this manual:

1. Try using a different browser or device
2. Clear your browser cache and cookies
3. Disable browser extensions temporarily
4. Contact the development team (details in the Team page)

11.2 Reporting Bugs

To report technical issues or bugs:

- Use the feedback system to describe the problem
- Include details about your browser and operating system
- Provide steps to reproduce the issue

12 About Detective AI

Detective AI represents the cutting edge of AI content detection technology, developed to address the growing challenge of distinguishing between human-created and artificially generated content. The application combines advanced machine learning models with user-friendly design to provide reliable, accessible AI detection services.

12.1 Development Team

Detective AI was developed by a dedicated team of computer science students as part of their capstone project, focusing on creating practical solutions for AI content detection challenges in academic and professional environments.

12.2 Future Development

Detective AI continues to evolve with regular updates and improvements based on user feedback and advances in AI detection technology. Stay connected for new features and enhanced accuracy in future releases.