

Client Handbook

Network Traffic Profiler Dashboard

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1. Introduction

- Purpose of this handbook
 - What the system does (high-level, non-technical)
 - Who this handbook is for
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2. System Overview

- What the Network Traffic Profiler Dashboard is
 - Key features
 - PCAP upload
 - Traffic analysis
 - AI classification (normal vs abnormal)
 - Dashboard visualisation
 - System limitations (file size, offline use, not real-time, etc.)
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3. System Requirements

3.1 Hardware Requirements

- Minimum PC specs (RAM, storage, etc.)

3.2 Software Requirements

- Python version
- Required libraries

- Supported OS (Windows/Mac/Linux)
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4. Installation Guide

4.1 Downloading the Project

- GitHub repo
- Folder structure overview

4.2 Installing Dependencies

- Virtual environment (optional)
- `pip install -r requirements.txt`

4.3 Running the Application

- Command to start Streamlit
 - What should appear when it runs
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5. Using the System

5.1 Starting the Dashboard

- How to launch it
- What the homepage looks like

5.2 Uploading a PCAP File

- Supported file types

- File size limits
- What happens after upload

5.3 Viewing Traffic Statistics

- Charts and tables explained
- What each metric means (packets, protocols, flows, etc.)

5.4 AI Classification Results

- Normal vs abnormal
 - Traffic type labels
 - Confidence / explanation (if available)
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6. Interpreting Results

- What “abnormal” means
 - What the system can detect
 - What it cannot detect
 - Avoiding misinterpretation
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7. Error Handling & Messages

- Invalid file
- Corrupt PCAP

- Missing dependencies
 - Common warning messages
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.8 Troubleshooting

- App won't start
 - PCAP won't upload
 - Charts not displaying
 - Slow performance
 - Fixes for each problem
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9. Maintenance & Updates

- How to update the system
 - How to update dependencies
 - How to retrain the ML model (if applicable)
 - Backup recommendations
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10. Security Considerations

- Local processing
- Temporary file handling
- Safe storage of PCAP files

- Avoiding exposure of sensitive data
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11. Future Development

- Planned improvements
 - Scalability
 - Multi-file upload
 - Real-time capture (future)
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12. Support & Contact

- Who to contact for issues
 - GitHub repo link
 - Project team
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13. Glossary?

- PCAP
- Flow
- Protocol
- Anomaly
- Dashboard
- Machine learning

14. Appendix

- Example screenshots
- Example outputs
- Example PCAP workflow