This tool parses Telegram-exported result.json chat logs, detects English entities using Amazon Comprehend, and enriches credit card data using the BINChecker API. Results are saved in .xlsx files.

*Setup Guide*

1. Set up a virtual environment (recommended)

python -m venv venv

source venv/bin/activate #Use ‘venv\Scripts\activate’ on Windows

2. Install required packages

Run this command in your terminal:

pip install boto3 requests openpyxl pandas tqdm ftfy python-dateutil langdetect

*API Requirements*

1. Amazon Comprehend

* You must configure AWS CLI with your credentials:

aws configure

* You’ll be prompted to enter:

AWS Access Key ID

AWS Secret Access Key

Default region name (e.g., us-east-1)

Output format (you can just hit Enter)

* Alternatively, you can export them as environment variables:

export AWS\_ACCESS\_KEY\_ID="your\_access\_key"

export AWS\_SECRET\_ACCESS\_KEY="your\_secret\_key"

export AWS\_DEFAULT\_REGION="us-east-1"

1. BINChecker API

* Sign up at <https://apilayer.com/marketplace/bincheck-api>
* Get your API key and paste it into the script where it says:

"apikey": "YOUR\_API\_KEY"

*File Structure Requirements*

* Place your Telegram result.json files in a folder of your choice.
* Update this line in the script with the full path to that folder:

Main\_Folder = 'PATH'

Each processed .json file will generate a corresponding .xlsx file.

* Supported file structure:

Telegram result.json format (from the export chat function)

*Notes:*

* Currently supports only Telegram .json exports.
* Other formats will be supported in future versions.
* The script filters for English and ignores non-English text (especially Russian).
* CVV, names, addresses, and other PII are categorized using Comprehend + heuristics.