GAMA (Y)

A FRAUD DETECTING EXTENSION

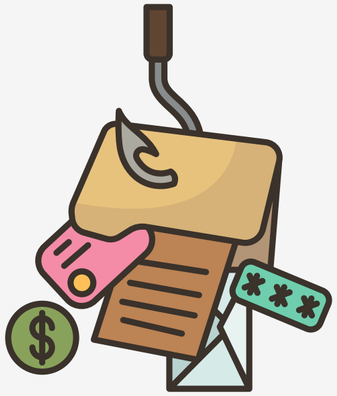
Table of CONTENTS

INTRODUCTION

Surf Safe, Choose Smart: Our browser extension GAMA, shields you from phishing, verifies reviews and new sources so you can navigate the web with confidence and clarity.

Why Gama?

Malicious Attacks



The Frequency of cyberattack has Gone up by 220% in Just the last year

Fake News

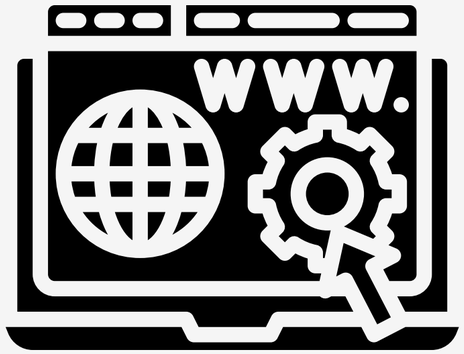
23% of Internet users admit they have shared fake news at some point.

Fake reviews

Businesses lose $16 billion annually due to fake reviews damaging their reputation.

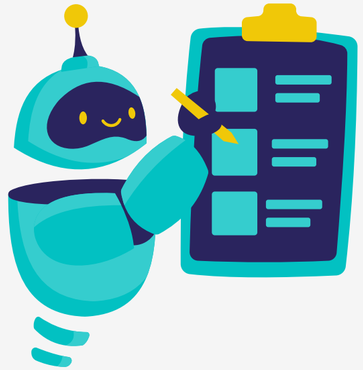
HOW TO TACKLE?

Monitor url



Monitor urls user visits and detect if it is malicious or not though Machine Learning

Identify fake news



identifying potential false information through Machine Learning Models

Identify fake review

Identify fake news through sentiment analysis

Our solution

Shield Yourself from the Deceptive Depths: Your Browser Defender Against Malicious sites, Fake Reviews, and Questionable News

Use a browser extention

Our extension checks for malicious sites and warns the user about it before they can snag your sensitive data.

Api based approach

We used an api based approach to exploit the vast amout of libraries & good eco-system for machine learning & ai in general. Also we wanted to make the apis avialable to third party services so that they can keep thier safe too.

Specifically trained Models

Detection of Fake (Questionable) news, Fake reviews is done on ML Models which is trained on specific type of data. For this prototype we used a small dataset due to limited time. But we can train it on any type of data for specific use cases

OUR FEATURES

REAL TIME ANALYSIS

Upon visiting a website, the extension will instantly analyze its URL structure, domain age, SSL certificate, and other risk factors, which will be displayed on clicking the extension.

THREAT PROTECTION

We have tried to integrate a strong protection from phishing sites through machine learning algorithms to identify anomalies. Our own page is shown on visiting such anamolies

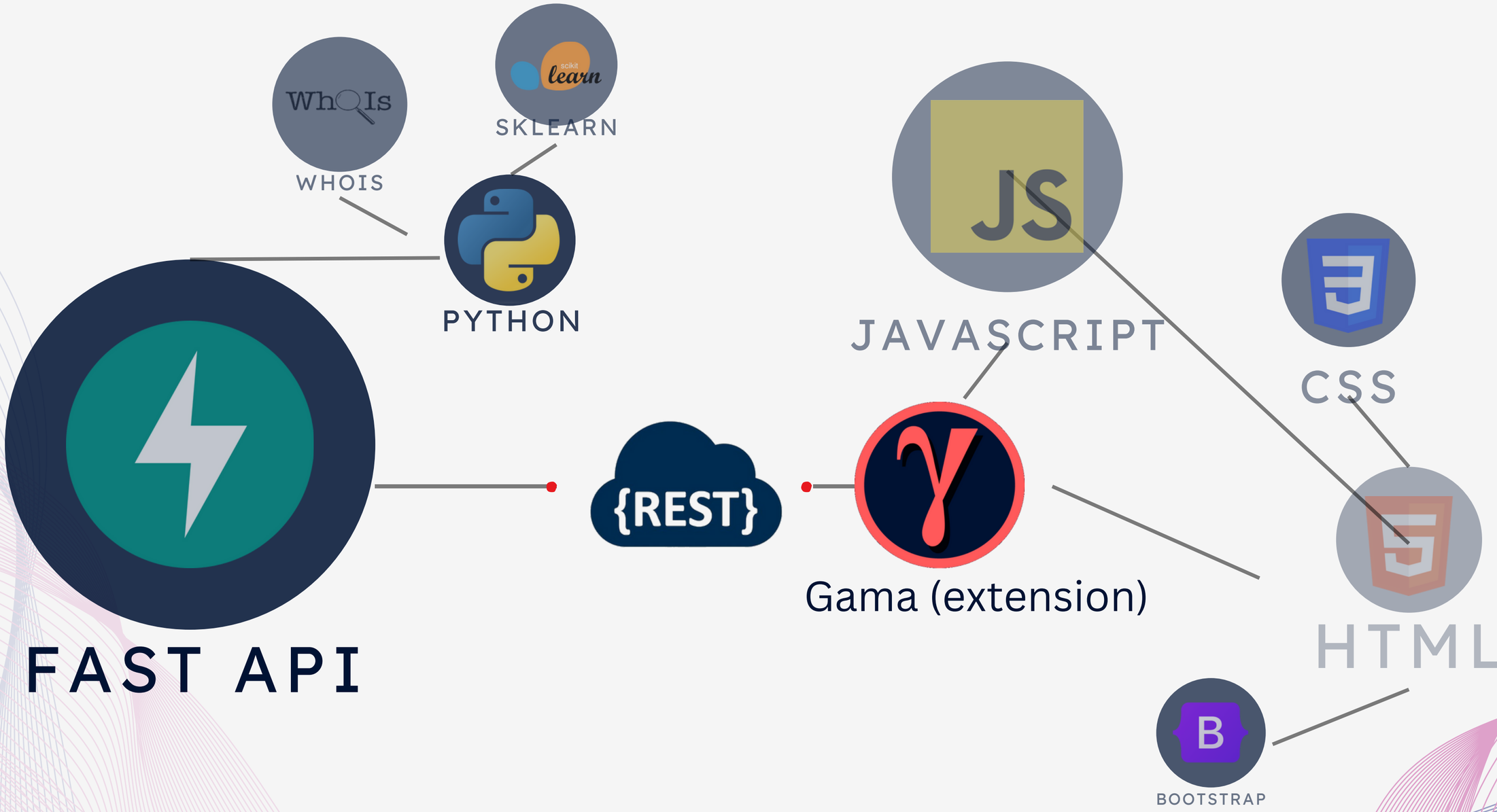
COMMUNITY SHIELD

The users have the right to report any site, which they think is an anomaly. The then report is analyzed and implemented through our code.

FAKE NEWS, REVIEWS DETECTION

Upon need, users can select specific amount of text and check for either fake review or fake news

Flow sheet of the project



WHY THESE THECHNOLOGIES

Technology	Why?
Fast API	We Used to fast api. Because it is very light weight and also new!, we also went with a api approach so that other developers can use our api to integrate it in thier own applications
Sk Learn	Since our data set was quite small . We went with sklearn rather than tensorflow. Also with our limited hardware we could train with it easier than tensorflow that utilizes heavy & expensive cuda cores
Whois CLI	We choose whois cli instead of an api because we wanted to keep this as free as possible and also keep the delay between front & backend small.
Chrome extention	we went with chrome extension to make this as usable as possbile & reach as many people as possible we are planning to add firefox in the future so that it reaches mobie uses too

ANY QUERIES?

THANK YOU FOR YOUR TIME

This was,

GAMA (Y)

A FRAUD DETECTING EXTENSION