



# EXIFA.NET

# Agenda

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- What is Exifa
- Why I built Exifa
- What does Exifa do
- Technology powering Exifa
- Is Exifa customizable
- See Exifa in action
- Questions

# Introduction

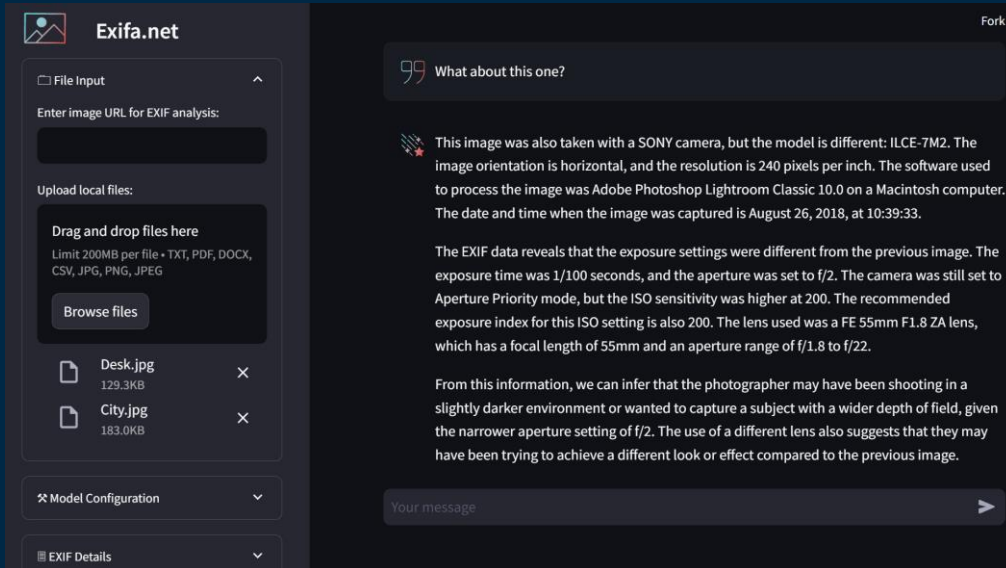


**Sahir Maharaj**

- Data Scientist, AI Engineer
- LinkedIn Top Voice in AI / ML and Data Science
- Microsoft Power BI Super User and Elite Influencer
- Ranked as Top Data Professional 2023 (Topmate.io)

# What is Exifa

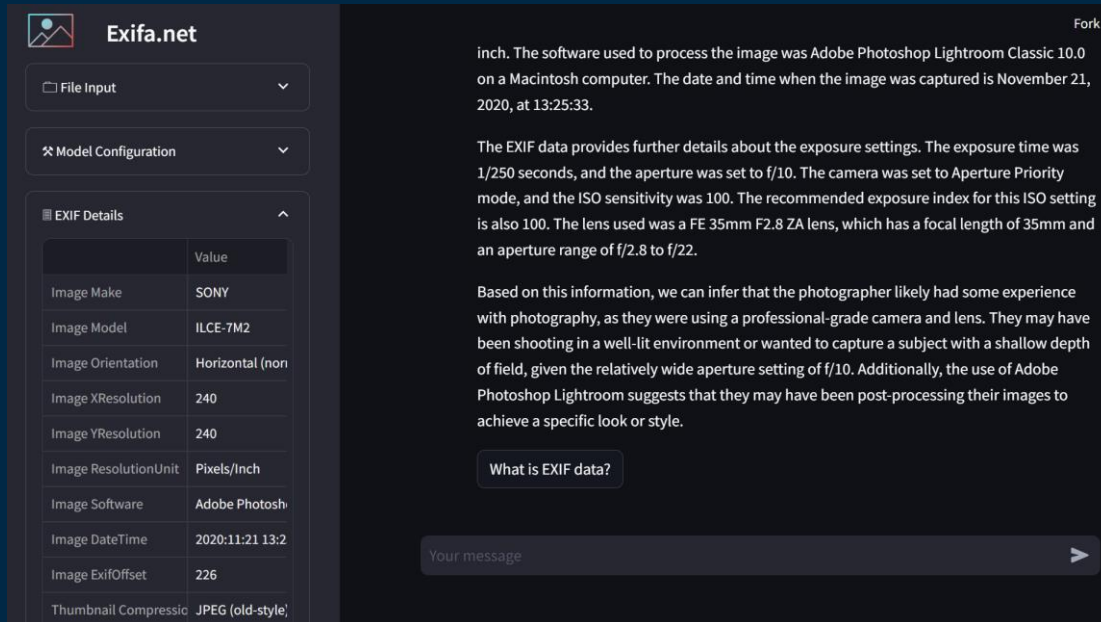
- Exifa is an AI assistant for understanding EXIF data.
- Aimed to educate individuals about EXIF and perform varied analysis.



[exifa.net](https://exifa.net)

# Why I built Exifa

- The goal is to enable users to understand EXIF metadata stored behind photos and remove it if needed.

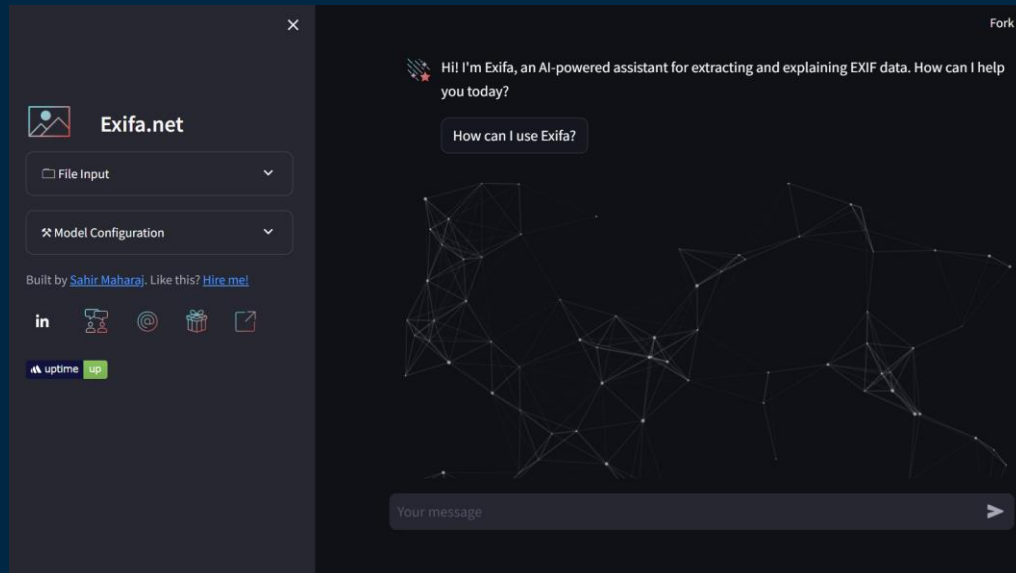


The screenshot shows the Exifa.net web application interface. On the left, there is a sidebar with navigation options: 'File Input', 'Model Configuration', and 'EXIF Details'. The 'EXIF Details' section is expanded, showing a table of EXIF data. The main content area on the right displays the EXIF data for a photo, including the software used (Adobe Photoshop Lightroom Classic 10.0), the date and time (November 21, 2020, at 13:25:33), and a detailed description of the EXIF data (exposure time, aperture, ISO sensitivity, lens, and aperture range). Below the text, there is a button labeled 'What is EXIF data?' and a message input field with a send button.

	Value
Image Make	SONY
Image Model	ILCE-7M2
Image Orientation	Horizontal (non
Image XResolution	240
Image YResolution	240
Image ResolutionUnit	Pixels/Inch
Image Software	Adobe Photosh
Image DateTime	2020:11:21 13:2
Image ExifOffset	226
Thumbnail Compressio	JPEG (old-style,

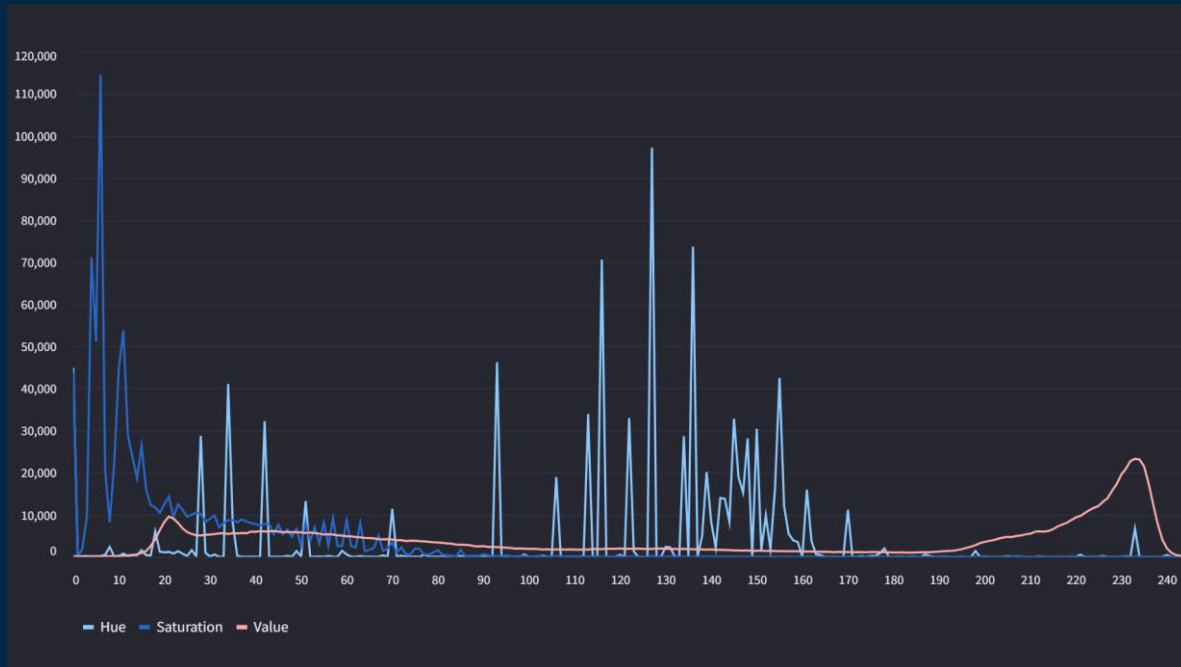
# What does Exifa do

- Extracts EXIF from images and injects this input into an LLM.
- It uses retrieval augmented generation (RAG) to provide the model context.



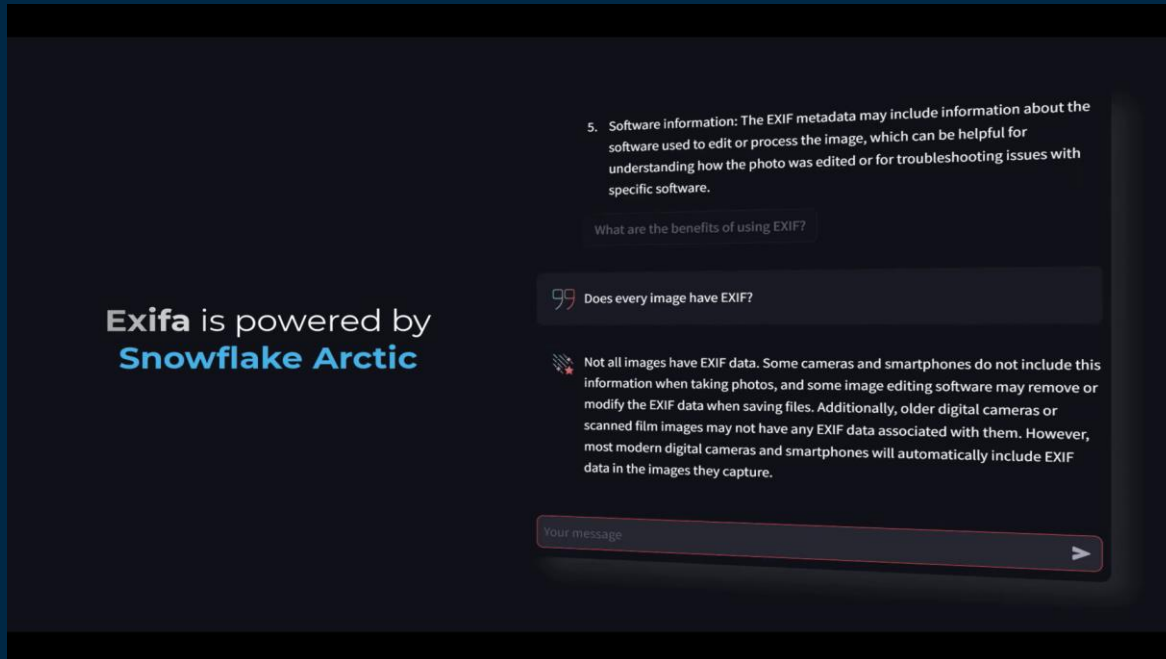
# What does Exifa do

- Exifa also provides rich visualization to understand image data



# Technology powering Exifa

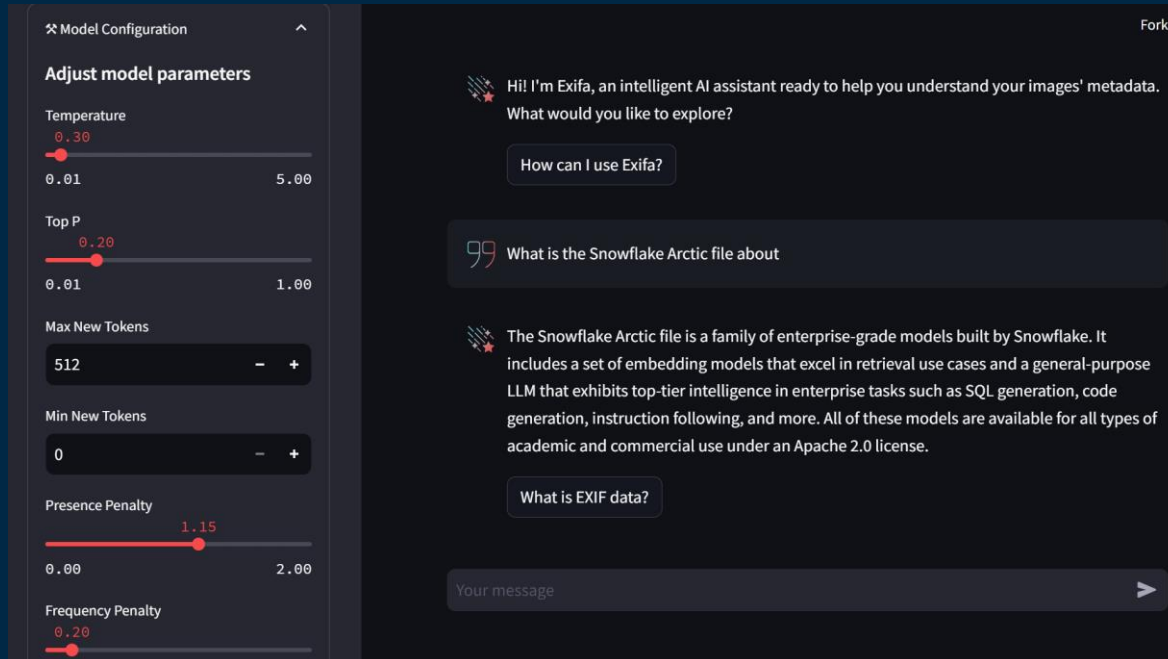
- Exifa is lightweight and powered purely by Snowflake Arctic and Streamlit.





# Is Exifa customizable

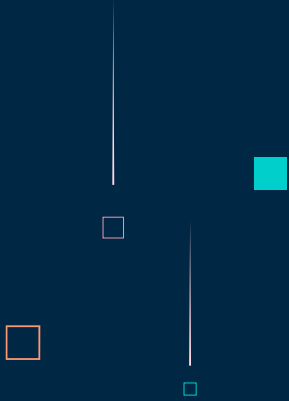
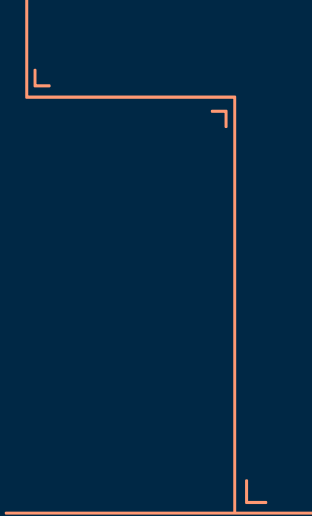
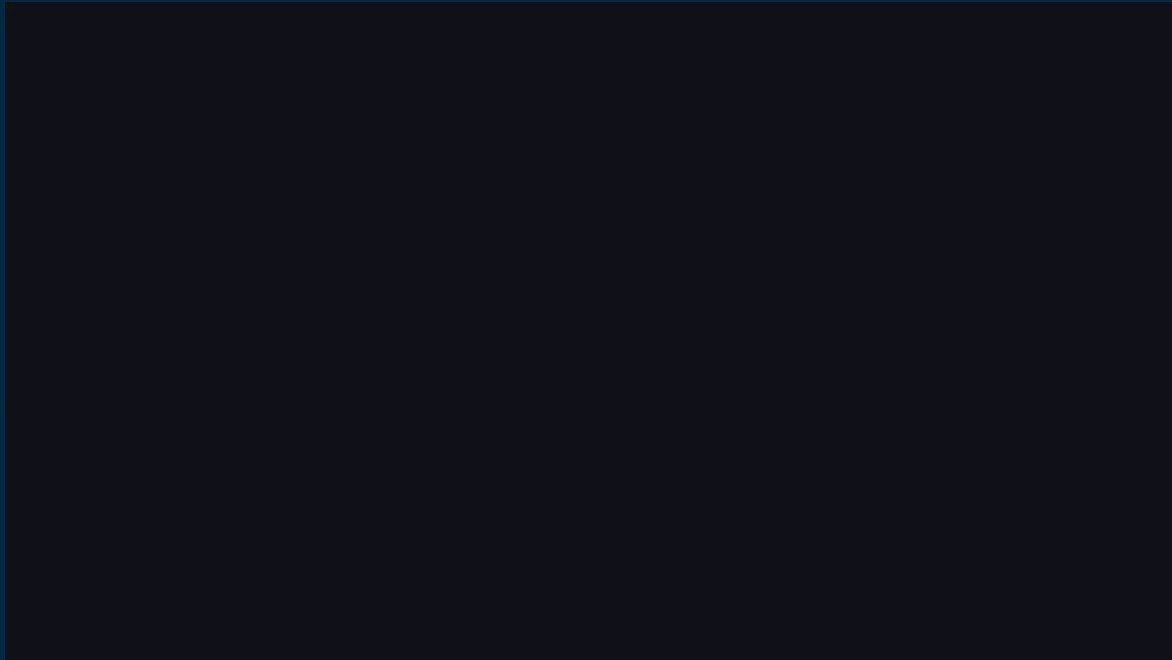
- From creative responses to focused outputs, you can modify model parameters as desired.



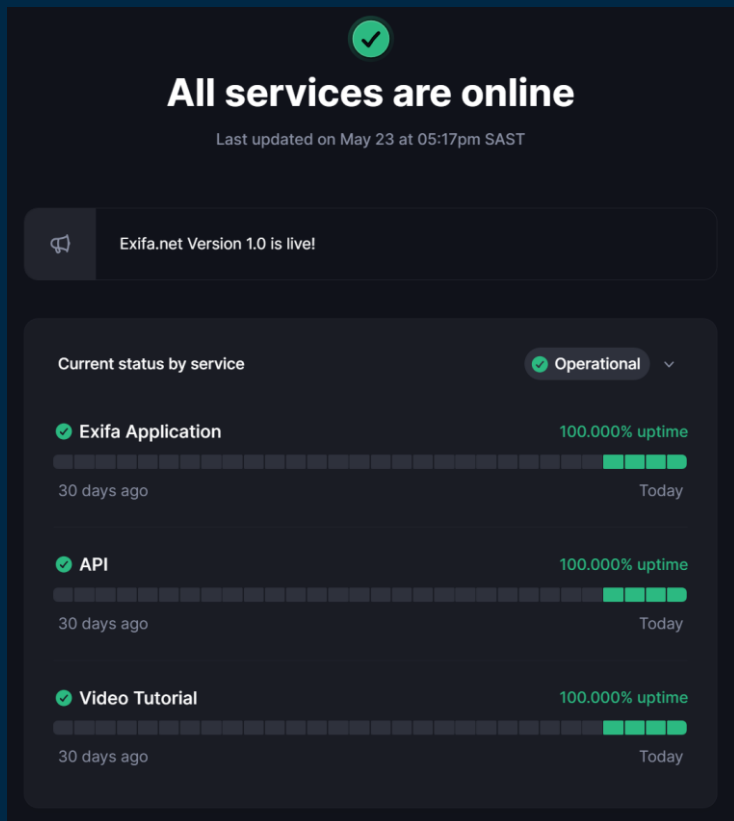
The screenshot displays the 'Model Configuration' interface for Exifa. On the left, a sidebar titled 'Adjust model parameters' includes sliders for Temperature (0.30), Top P (0.20), Presence Penalty (1.15), and Frequency Penalty (0.20), along with input fields for Max New Tokens (512) and Min New Tokens (0). The main chat area shows a system message: 'Hi! I'm Exifa, an intelligent AI assistant ready to help you understand your images' metadata. What would you like to explore?' followed by a user prompt: 'What is the Snowflake Arctic file about?'. The AI response explains that the Snowflake Arctic file is a family of enterprise-grade models built by Snowflake, including a set of embedding models and a general-purpose LLM. A 'Your message' input field is visible at the bottom.

# See Exifa in action

- Exifa can analyze documents and multiple images simultaneously.



# Future Roadmap



- Third-party APIs
- Llama-3 / GPT-4o
- Input sources
- Additional quality of life improvements
- Paid subscription

Do you have any questions?

sahir@sahirmaharaj.com

+27 081 796 9414

sahirmaharaj.com

# THANK YOU

