

DEVCONF.IN



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Software Engineer 2

Hack the Clock

How Open Source Powers Your
Hackathon Success



\$whoami

Learner

Innovator : SIH

Evaluator, Winner, UIA

Public speaker

Athlete at heart :



Off the grid? Catch me
just soaking up **nature**
to recharge for the next
big idea.





AGENDA

- 1 Introduction to yours truly
- 2 What Hackathons Are Really About
- 3 HOW OPEN SOURCE is a Game Changer
- 4 Tips and Tricks for Rapid Prototyping
- 5 Resources for Lifelong Innovation KEY OPEN SOURCE TOOLS
- 6 Winning Insights and Samples

What are Hackathons ?

RUNNING WHILE HACKING



"HACKATHON"

imgflip.com

What are Hackathons ?

Hackathon is **time bound event** where people collaborate to develop **innovative solutions** to specific problems or **challenges**

- Learn a new skill and technology
- You **collaborate** with like minded people
- Enhance your problem solving capabilities

START



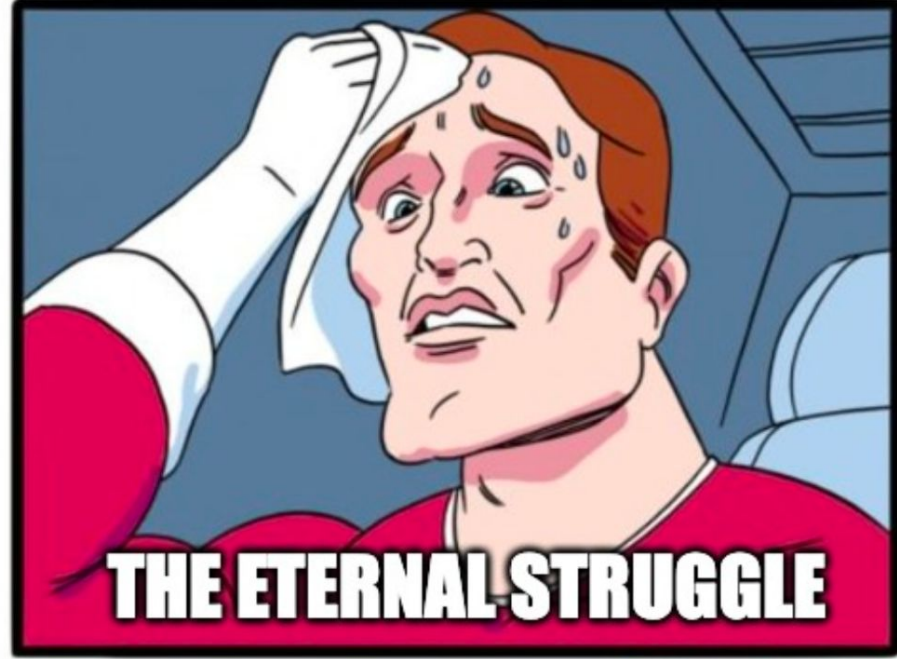
Middle



END



Confusion



HOW OPEN SOURCE is a Game Changer (Perfect Catalyst)

- **Time** is essence in hackathons: **Avoid Reinventing the Wheel**
- **Focus on Rapid Prototyping**
- Leverage use of **Pretrained models, samples, templates**
- Master the ART of **Get the right tool for the right work** : Tool Selection for Efficiency
- **Community Support and Collaboration**: Open-source projects foster collaboration, (Reddit, FOSS, GitHub, Stack Overflow)
- **Cost Efficiency**: No Licensing Fees
- **Make Scalable and Flexible** Hackathon Solution: Since open-source tools allow you to modify the code, you have the flexibility to adapt them to your project's needs

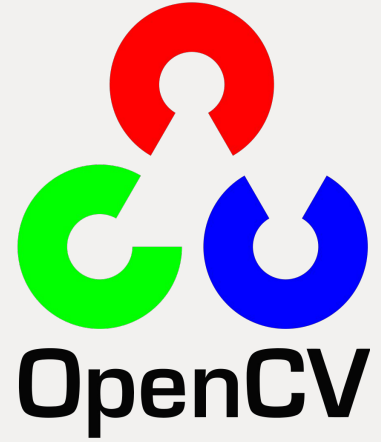
Tips and Tricks for Rapid Prototyping

- **Prioritize the Core Features (MVP)** : Break your project down into “must-have” vs. “nice-to-have” features
- **Leverage use of pre build components, frameworks, samples, templates and models** to save time
- Use **Free tier Accounts** with no upfront costs for MVP
- **Automate Tasks** with Tools and APIs
- **Don't Overcomplicate the Design**: it should just have bare minimum but solve the problem up to the point. Use a "**low-fi**" approach to the design — simple buttons, basic layouts, and minimal colors. This keeps the focus on testing the core functionalities rather than polishing the UI.

The background is a solid light purple color. Overlaid on this are several geometric shapes in different shades of purple. A large, dark purple circle is positioned on the left side. A medium-sized, medium-purple circle is on the right side. In the center, there is a square of a slightly darker purple shade. The text is centered within this central square area.

KEY OPEN SOURCE TOOLS TO LEVEL UP YOUR HACKATHON PROJECT

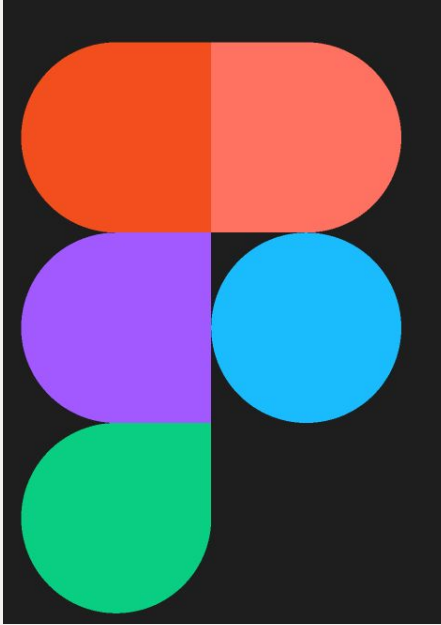
Popular open-source AI



TensorFlow



Design Tools for Rapid Prototyping



Figma



penpot

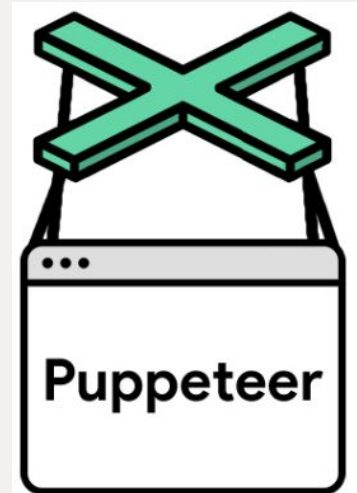


Adobe XD

Popular Static site generator



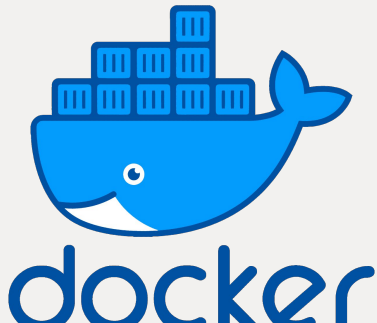
Popular Web Scrapers



Popular open-source Security & Authentication Tools



Popular Deployment tools



Winning Insights



Smart India Hackathon 2022

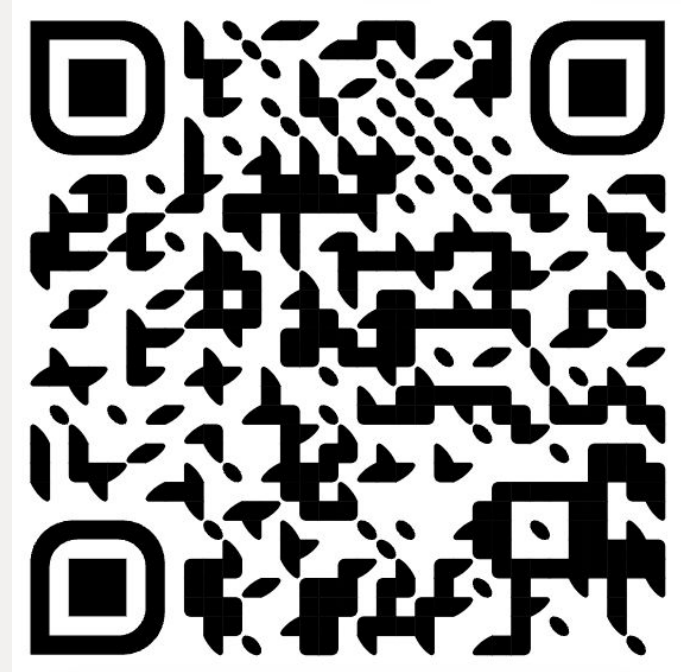


India Africa Hackathon 2023

Other examples



Resume Extractor and Job



Portfolio

FACTS



Mark Dalgleish

@markdalgleish

Developers during hackathon:
We built an entire application
in just 3 days.

Developers after hackathon:
Adding that icon is going to
take 3 weeks.

ITNA SACH KYU BOL RAHA HAI?



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Thank You DEVCONF.IN

Until Next time