

# PYCON INDIA

2021



17 - 20 SEP



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# Welcome to PyCon India 2021 Online

Yus! Yus! I'm so excited for the weekend ahead.

Oi! Attending PyCon India?



People, I'm already in Hopin. Where are y'all? Join soon. Keynote to start soon.



Oh wow! My PyCon India Badge looks really cool...



# Introduction to PyCon India 2021



#### print(f"Hello {attendeeName}!")

Please accept our most gracious welcome to the 13th iteration of the PyCon India conference, the hallmark event for the Python programming language community, and the largest annual gathering of Pythonistas in India.

The continued development of vaccines gave us the hope we needed to get our lives back to normal. But, we're still stuck in our homes. Since you couldn't come to the conference this year, our team intends to bring the conference straight to you.

We remain committed to making the conference bigger, better, and more accessible than ever. After all, PyCon India is made by

you, for you, and with you at its center.

We started with just 300 attendees joining us for our first iteration in 2009. Our grassroots conference has grown to become the biggest Python conference in India. This year, the mega-event went international with over 1200 attendees from 13+ countries.

PyCon India is the yearly pilgrimage for python developers, researchers, students, and enthusiasts from all over India to add faces to usernames and interact with the community for lifelong opportunities.

#### Bringing people together from the comfort of their homes

And this year, we're taking it to a global scale by introducing virtual poster presentations and well-informed panel discussions about Python in Education, Space, Cybersecurity, Neurodiversity.

Our Vision is to bring the cumulative knowledge and experience of our community members to a common platform. We want to create a responsible and inclusive ecosystem where Pythonistas from diverse backgrounds can come together to share their stories and gain something from each other's experiences.

We hope your experience this year with the jam-packed schedule we crafted for you in the next four days is truly exceptional. Thank you for joining us again for another iteration of PyCon India, and let the festivities begin!



# Online Conference





#### Online Conference

Folks attending the conference days (18th and 19th September 2021) will need a ticket to access the conference platform. The workshops (17th September 2021) will have a separate ticket to get access to the sessions. Folks attending the sprints (20th September 2021) will need a conference ticket to participate in the developer sprints. You can check the Developer Sprints section to find out more about the process and platforms for the sprints. This section will get you acquainted with the tools, tracks, and different events happening at the conference.

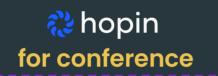
#### Zulip for messaging

Zulip is a straightforward open-source chat and collaborative software where communication occurs in streams and topics (similar to IRC). During PyCon India 2021, Zulip will help you stay connected to each and everything happening at the conference!

All PyCon India streams are formatted as **2021/channelName** and will be available on the sidebar. For example, you can find streams named **2021/stage/1** and **2021/announcements**.



If you are new to Zulip, then get started or reach out to us on 2021/helpdesk stream. To join the PyCon India Zulip channel, enter the URL in your preferred browser: <a href="https://pyconindia.zulipchat.com/join/mtuwo5arpwiptpzdmoyd5jdv/">https://pyconindia.zulipchat.com/join/mtuwo5arpwiptpzdmoyd5jdv/</a>



Hopin is an online events platform where attendees can learn, interact, and connect with everyone attending PyCon India 2021. It's a live video platform where we aim to replicate the same experience of an offline PyCon India conference to which we are all very familiar. Hopin provides ample features to network, interact, and participate in the conference to connect our attendees worldwide through sessions and networking rounds.

#### PyCon India Hopin structure!

Hopin's simple, intuitive UI helps getting around to sessions a fun experience for all. We will talk through PyCon India's structure of Hopin as per the events and sessions taking place for the next 3 days.



#### Workshops



Workshops will be happening on 17th September 2021 over on **Hopin sessions**. Sessions promote real-time live interactions. With up to 20 attendees being able to share their screen, sessions help in promoting better speaker interaction and a frictionless workshop experience for all the attendees.

Workshops are focused 2.5 hours sessions with expert speakers following a step-by-step tutorial and explaining concepts as they go along. We will have 6 workshops, which will be taking place on **Hopin sessions** on 17 September.



#### **Keynotes & Talks**

Confearence days will be happening on 18th and 19th September 2021. With the link, you would have received on your registered email address, log into the Hopin platform, and set up your profile. Through the conference days, we will be having talks, keynotes, panel discussions, Birds of a Feather (BoF), .extend() track, Neurodiversity and experience sharing sessions, lightning talks, and a lot more.

You can find the schedule listing all the events

and information about them in the program guide. The same will be available in Hopin as well as you can even import it to your own favorite calendar application with this iCal file <a href="https://in.pycon.org/2021/schedule.ics">https://in.pycon.org/2021/schedule.ics</a> that we have created for our attendees.

- The Hopin stage is where you will find talks, panel discussions, and keynotes taking place. Talks and keynotes are presented by subject matter experts, condensing complex topics into actionable insights and easy-to-understand concepts.
- This year we have 5 stages on Hopin. In each stage, talks of 30 minutes each are scheduled, with 25 minutes for the talk and 5 minutes for taking questions. Keynotes will be taking place on Stage 1.



#### **Networking**



We know how much you love hallway conversations during a physical conference, right. What if we tell you we got the next best thing. Check out the Networking section on Hopin. Networking allows folks to expand their network with random or ticket type-based matching and have engaging 1:1 meetings to connect with event attendees. Well, we all will still miss the stairway discussions, and for that, we have our many social events planned for you.

#### Lightning Talks, .extend(), BoFs and much more!

This year we are bringing you a special track called .extend(), Birds of a Feather (BoF), the community favorite Neurodiversity and experience sharing sessions, lightning talks, and many more social events apart from the hallmark conference experience, so don't forget to get in on the fun. Lightning talks in stage 1, and .extend() on Stage 4, Neurodiversity and experience sharing sessions on Stage 5. You can read all about these amazing sessions over on the About the Conference section.





### **In-Kind Sponsors**













IBM **Quantum** 

**Community Sponsor** 



### **Local Python Communities**





# Agenda



#### September 17, 2021 - Workshops

Building Powerful
Interactive AI/ML
web apps using
Streamlit

Sasidhar Donaparthi

Getting Kafkaesque with Python

> Dipen Chawla, Devesh Bajaj

Make your Python applications
Kubernetes native!

Nabarun Pal



14:30

15:30

**Break / Networking** 

IndicNLP: Natural Language Processing for Indian Languages using Python

> Gajendra Deshpande

Knowledge graph data modelling with TerminusDB

Cheuk Ting Ho

Introduction to
Property-Based
Testing

Zac Hatfield-Dodds



These legends will help you find conference talks and respective Hopin stage from following schedule pages...

Stage 1

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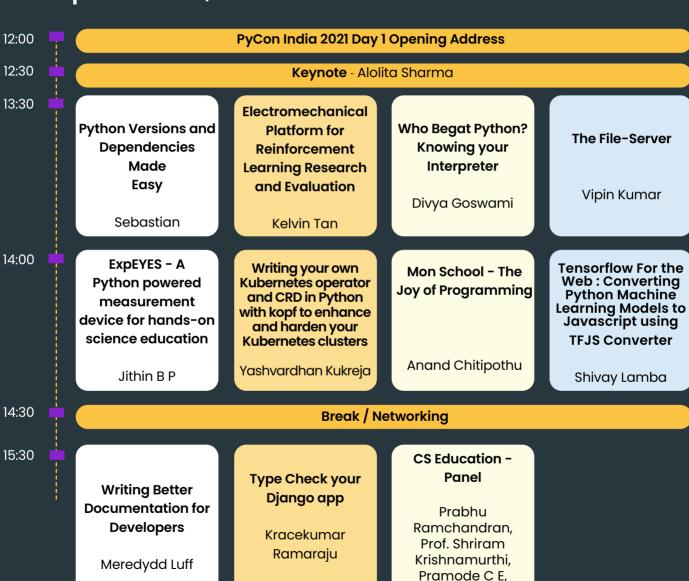
Stage 3

Stage 2

Stage 4

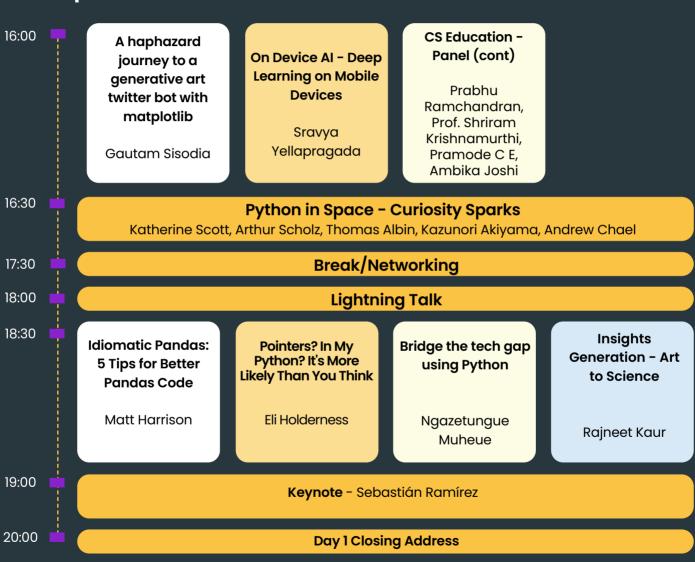


#### **September 18, 2021**



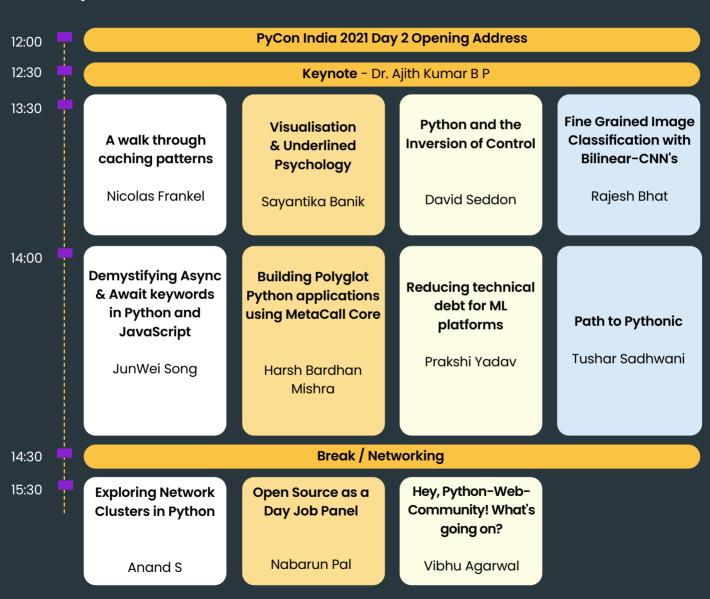
Ambika Joshi

#### **September 18, 2021**

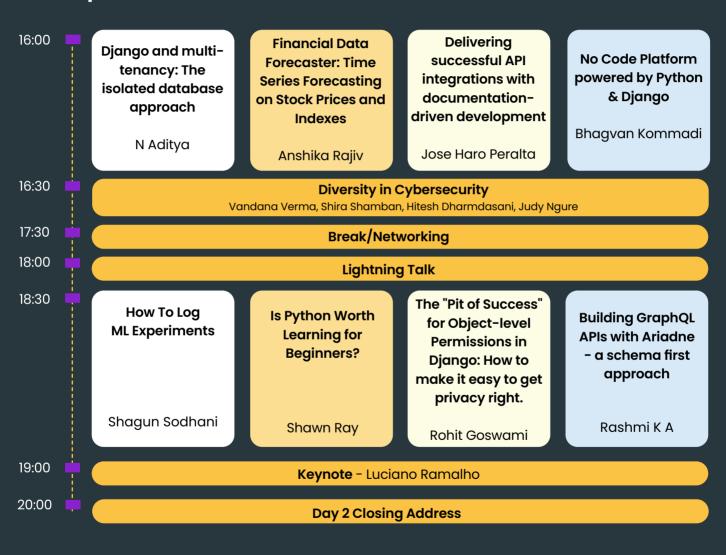




#### **September 19, 2021**



#### **September 19, 2021**



#### Neurodiversity and Experience Sharing Sessions at PyCon India 2021

#### **September 18, 2021**

1. How to ace problem-solvingperspective of a non-CS engineer

Anushi Maheshwari

2. Neurodiversity Demystified

Joel S Godi

3. PhD - and the many possibilities ahead

Ananya Mandal

#### **September 19, 2021**

 Women in tech careers taking that extra leap

Manaswini Das

2. Panel: Neurodiversity & Inclusion

Panchali Banerjee | Joel S Godi Mark Charlesworth | Asha Sreedhar

### Get your Virtual Badge







Generate your badge from the link here.

https://in.pycon.org/badges/





### Keynote Speakers

Keynotes at PyCon India are larger than life, as have been our speakers who time and again present amazing keynotes for all our attendees. From live coding sessions in keynotes to talks about community, diversity, and bringing about positive change in the community. Our esteemed keynotes speakers have covered the spectrum of presenting some truly inspirational content at PyCon India. All keynotes will be taking place in Stage 1. Timings can be found in the schedule. Below you can find information about each of our keynote speakers.



#### ALOLITA SHARMA

September 18, 2021 - 12:30 IST

**9** (a

@alolita

https://alolitasharma.com/

Alolita is a Principal Technologist at Amazon Web Services (AWS) where she leads open observability and development source on OpenTelemetry, Prometheus, Cortex, Grafana focused on metrics and log based observability. Alolita also serves as a member of the OpenTelemetry Governance Committee and as a board director of the Unicode Consortium. She contributes to open standards on Unicode Technical Committees and W3C. She has served on the boards of the OSI and SFLC.in. Alolita has led engineering teams at Wikipedia, Twitter, PayPal and IBM. Two decades of doing open source continue to inspire her.



#### SEBASTIÁN RAMÍREZ

- Septembe 18, 2021 19:00 IST
- **y** @tiangolo
- https://tiangolo.com

Sebastián Ramírez (@tiangolo) is the creator of FastAPI, Typer, SQLmodel and other open source tools. FastAPI was included in the last official Python developer survey of 2020, and it was ranked as the 3rd most used Python web framework. And by different metrics, FastAPI could be considered the Python web framework with the highest growth rate.

worked led He has and teams of developers from Latin America to the Middle East. Always building different of products and types custom involving solutions data processing, distributed Machine systems, and Learning. Sebastián was recently part of Explosion, in Germany, the team that created spaCy, a popular open source NLP toolkit.



#### AJITH KUMAR B P

- September 19, 2021 12:30 IST
- @AjithKumarBP
- http://scischool.in/

Dr. Ajith worked as a senior scientist with Inter-University Accelerator Centre, New Delhi from 1985-2021.

He has done his M.Sc and Ph.D. in Nuclear Physics from the University of Calicut and M.Sc in Accelerator Physics, from the University of Manitoba, Canada. He works mainly in the area of design and development of particle accelerators and instrumentation for associated experiments, including radio-frequency accelerating structures, control, and data acquisition systems, digital and radio frequency electronics modules.

He initiated the PHOENIX project by designing a parallel port-based computer interface for teaching physics and engineering in 2005. His dedicated efforts in developing open science hardware for teaching science led to the latest development of <a href="ExpEYES"><u>ExpEYES</u></a>.

For the past several years he has been involved in promoting Free Software tools in Education. Has been pursuing academic community to include Python in their syllabus and has written a book 'Python for Education'. He has continued his work promoting science education and scientific temper through his new project scischool.in



#### LUCIANO RAMALHO



September 19, 2021 - 19:00 IST



@ramalhoorg

Luciano Ramalho is the author of Fluent Python (O'Reilly), published in 9 languages. He's been a professional Python programmer since 1998, and he just finished writing the Fluent Python, Second Edition, covering Python 3.9 and 3.10—to be released in Q4,

2021. Ramalho is a Principal Consultant at ThoughtWorks, and co-founder of Garoa.net. br, a hackerspace in São Paulo, Brazil.

### **Tracks**

This year we have the biggest and most diverse lineup yet, covering a vast variety of topics than ever seen before in PyCon India. With 3 main tracks of talks being presented by subject matter experts over 2 days, you are surely in for a treat.

This year, we have talks from new domains such as Python in Science and Education and Quantum computing, in addition to Core Python, Web Development, Data Science, Gaming, Embedded IoT, and community. You can find all session details on the <a href="PyCon India">PyCon India</a> 2021 Schedule

Talks will be presented on the Hopin stage section with 3 stages named Stage 1, 2, and 3. You can ask your questions on the stage chat on Hopin. If your question is not covered by the speaker in time, the speakers will be available after the talk on the Zulip channel for the respective stage (#2021/stage/stage-number) at least 15 minutes after their talks.

#### .extend() track

We believe that no talks are worthy of being rejected. And, with that ideology, we are bringing the .extend track back from last year. This caters to the awesome proposals that unfortunately get rejected during the review process and give them a second chance. Each speaker who submitted their talk to PyCon India to still present their ideas and insights at the conference.

We thank <u>Cloud-Native Rejekts</u> for the inspiration behind this new track! The speakers in the track will be presenting their talks on Stage 4 on Hopin parallel to all the other tracks. You can find the schedule for the talks in Hopin. You can read more about it here <a href="https://in.pycon.org/blog/2021/extend-track-schedule.html">https://in.pycon.org/blog/2021/extend-track-schedule.html</a>.

#### **Lightning Talks**

Lightning talks are light 5-minute sessions where the participants showcase anything interesting they have been working on to share with attendees present at the conference.

Lightning talk submissions will be done through a Google form that will be floated after the

end of the first keynote over on Hopin Stage 1. Talks will then be selected on a raffle-based system. Lightning talks will be held on Stage 1 on 18th and 19th September 2021, at 18:00 IST.

#### Birds of a Feather (BoF)

Birds of a Feather are special sessions where the participants can engage in an open discussion on a popular topic with a group of people. This year the topic is, **Samurai Python Dev environments**. The discussions will take place in a special Hopin session, and would be run by the moderator, who will moderate the discussion and keep the conversation flowing. Check out all about this **session**.

Note: One can also propose an ad-hoc BoF session on the day of the conference. The duration of a BoF would be 60 minutes.

# Neurodiversity and Experience Sharing Sessions

<u>PyCon India</u> is a grass-roots, volunteer-driven conference for the Python programming

language. Python communities across the nation have come together to help plan, organize, manage, and run the online conference. This year, we're bringing more ideas and insights to the forefront of the Python community by introducing talks about Neurodiversity, and experience sharing with Stage 5.

PyLadies India Community has put together a series of carefully picked up experience sharing sessions by women speakers excelling in their field, alongside the traditional **PyLadies Lunch**. PyLadies is an international mentorship group with a focus on helping more women become active participants and leaders in the Python open-source community. You can join the PyLadies Lunch on Hopin sessions on September 18th, 14:30 IST.

Read more about the session details on our blog

#### **Poster Presentation**

This year, we have poster presentation sessions for our attendees on September 18th-19th on Hopin sessions, where the talented members of our community will showcase their favorite things about Python and its ecosystem through beautifully crafted posters. The presenters will be available during the lunch break to describe their work and answer any of your questions on 19th September. You can also interact with the presenters on the 2021/posters Zulip stream.

#### **Hallway Tracks**

Hallway tracks are a great place to share your opinions, discuss your recent discoveries and adventures with Python, with your fellow community members. This year, we'll have general-purpose hallway tracks namely alpha, beta, gamma, delta for you to interact with like-minded people.

If you're looking to share your recent experiences in any domain of the Python programming language, we also have domain-specific hallway tracks:

- AI/ML/Data science
- Python and its ecosystem
- Web Development, Tools & Automation
- Python in Science Education
- Embedded Python and IoT
- Culture & Society



#### Workshops

Workshops are a great way to gain handson knowledge about stuff the attendees are interested in learning from an expert on the matter. The 6 workshops will be taking place on Hopin sessions on 17 September.

Workshops are focused 2.5 hours sessions with subject matter expert speakers following a step-by-step tutorial or taking hands-on sessions and explaining concepts as they go along.

This year we have some amazing workshop sessions about DevOps, testing, data science, and Natural Language Processing.

#### **Developer Sprints**

Developer Sprints are a great way to get started with contributing to an open-source project. Developer Sprints will take place from Monday, September 20th, 16:00 IST to 20:00 IST

Please join the <u>discord server here</u>. Please check out the <u>Mentored Sprints Community handbook</u>. You will receive instructions regarding how to participate in the dev sprint in a separate email one day before the dev sprint.

Please reach out to us on the `2021/devsprints` if you need any help regarding the dev sprints.



**Mentored Sprints** 

September 20th, 2021

PyCon India 2021 - online

Mentored Sprints are back at PyCon India! Join us for a day of contributions to open source



# Panel Discussion

Panel Discussions are the way to introduce enlightening discussions into the community by collaborating with subject matter experts on fascinating topics that are prevalent in the world. This year, we bring you to three-panel discussions on topics:

- 1. Python In Space
- 2. CS Education
- 3. Diversity in CyberSecurity

This year, we have brought in some fantastic panelists for you from a wide variety of expertise and domains. We have various subject-matter experts, from renowned professors & programmers to security researchers & engineers to spacecraft operations engineers & members of the team who got the First image of a Black Hole. You do not want to miss any of these panel discussions.community.

You can find all session details on the <u>PyCon</u> <u>India 2021 Schedule</u>



#### **Our Panelists**



Pramode C E



Shriram Krishnamurthy



Arthur Scholz



Shira Shamban



Judy Ngure



Prabhu Ramachandran



Kazunori Akiyama



Andrew Chael



Hitesh Dharmdasani



Thomas Albin



Ambika Joshi



Katherine Scott



Noufal Ibrahim



Vandana Verma

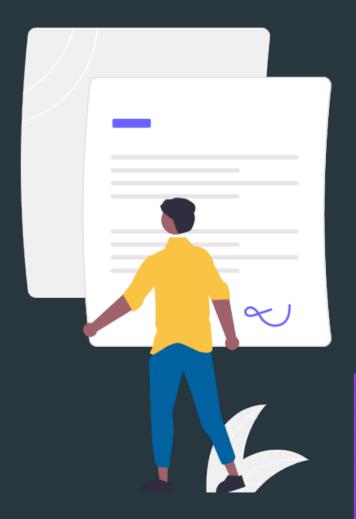


Praveen Patil

#### **Job Board**

2021 has been a strange year for each one of us. We understand that a lot of our attendees might be looking for jobs right now. That's why we have organized a special opportunity exclusively for PyCon India attendees looking to find a new place to work. You can check out the posted jobs at <a href="https://in.pycon.org/2021/jobs">https://in.pycon.org/2021/jobs</a>.

If you're a recruiter looking for new candidates from our community, you can submit your job posting by filling the google form on <a href="https://in.pycon.org/2021/jobs">https://in.pycon.org/2021/jobs</a>. If you have any questions or want to interact with other interested community members, you can post on the `2021/jobs` Zulip stream.



# Code of Conduct



# Code of Conduct



PyCon India is a community-organized conference dedicated to providing an enjoyable, rewarding, and harassment-free experience for everyone involved. We expect all the attendees, speakers, exhibitors, organizers, and volunteers at PyCon India to follow the Code of Conduct.

You can check the full PyCon India Code of Conduct at <a href="https://in.pycon.org/2021/coc/">https://in.pycon.org/2021/coc/</a>. If you have any questions, suggestions, feedback regarding the CoC, feel free to contact any member of our CoC workgroup. All your communications will be kept confidential and will only be seen by the members of the CoC workgroup.

# Treating everyone equally and nicely

PyCon India is dedicated to providing a harassment-free conference experience for everyone, regardless of age, gender, sexual orientation, physical appearance, disability, race, religion, or employment. We don't tolerate harassment of attendees in any form.

Be kind and sensitive to the people around you and avoid any kind of offensive behavior. Sexist, racist, or any other form of exclusionary or offensive jokes or excessive public swearing are not appropriate at any venue, virtual or otherwise, of PyCon India.

# Professional Behaviour

All communication should be appropriate for a professional audience, including people from many different backgrounds.

#### Witnessing an incident

If you notice someone being harassed during the event or witness any other concerning behavior, you should not ignore that incident. Please report it to any of our CoC workgroup members, details for which are provided below.

#### Contacts for Reporting Incidents

Help us make PyCon 2021 a safe and inclusive experience for all. If you observe someone else or have experience with a person or people violating the code of conduct at any point during the duration of the conference online, then be sure to report the incident to the undersigned. Details of anyone coming forward or reporting an incident will be kept anonymous.

In case you witness an incident and wish to report it, please make sure to include your contact details, name of all the individuals involved, the location and time of the incident (please be specific), your account of what occurred, and any extra information that would be relevant to the incident in your report. For more information on how your reports are processed and what steps you have to take, please read our Reporting Guide.

To report incidents, you can send us a mail regarding all relevant details or screenshots of the incidents to report@in.pycon.org or contact any of the people mentioned below directly

#### **Minal Patil**

- @PraveenMinal
- minal.jce@gmail.com
- Zulip: @minal patil

#### Sukanya Mandal

- (a)msukanya93
- sukanyamandal06@gmail.com
- Zulip: @sukanyamandal

#### Chandan Kumar

- 💆 @raukadah
- raukadah@gmail.com
- Zulip: @chandankumar

#### Nabarun Pal

- (a)theonlynabarun
- inpycon@naba.run
- Zulip: @nabarun

#### Sayan Chowdhury

- yudocaa @yudocaa
- 911@yudocaa. in
- Zulip: @Sayan Chowdhury

#### **Spamming**

Spamming the conference attendees with your product or services, including the networking sessions with other attendees, without permission is not allowed. If you find any individual spamming you or your fellow attendees, please report the incident to our CoC workgroup with the evidence of their behavior.

#### **Code for Speakers**

Sexual language or imagery is inappropriate for your talks or slides. Refrain from using sexist, racist, or exclusionary language anywhere in your content.

#### Code for Exhibitors and Sponsors

Exhibitors in the expo hall, sponsor, or vendor booths, are subject to the anti-harassment policy. Exhibitors should not use sexualized images, activities, or other material.

Booth staff (including volunteers) should not use sexualized clothing/uniforms/costumes or otherwise create a sexualized environment.





#### **FAQ**

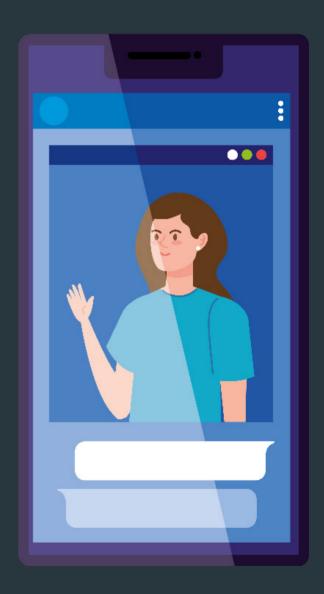
### May I send private messages to attendees?

If you have interacted with the concerned attendee previously and they have permitted you to contact them privately, then you can message them.

If any attendee messages you privately without permission, and you are sure it is not a one-off mistake or if they do it repeatedly, please contact our CoC workgroup and report the incident to them.

#### Can I advertise my product/ services during the conference?

No, spamming the conference attendees with advertisements for your product/service is not ethical. If you are a sponsor, please only use your dedicated booths and streams to advertise your products, the other discussion streams are not to be used for advertisements. If you are not a sponsor, you are strictly prohibited from advertising anything during



the conference. If you are found spamming and disturbing the attendees with advertisements without permission, appropriate action will be taken against you by the conference organizers.

# What should I do if an attendee refuses to address me using my preferred pronoun even after multiple requests?

If you wish to be addressed by a specific pronoun(s), please add your preferred pronouns to your name on the conference platforms to inform the other attendees on how to address you.

If an attendee(s) refuses to use your preferred pronoun, even after notifying them that's how you wish to be addressed and makes you feel uncomfortable, please report the incident to our CoC workgroup with the time and location of the incident(s). The conference organizers will take appropriate action against the attendee in question.

# What should I do if I have concerns regarding an attendee's behaviour on social media platforms?

If observed attendee's behaviour is amounting to harassment or abuse against you or other attendees on non moderated platforms like social media, please report the incident with valid proof to the CoC workgroups. The workgroup members will review the evidence and take appropriate action on a case by case basis.

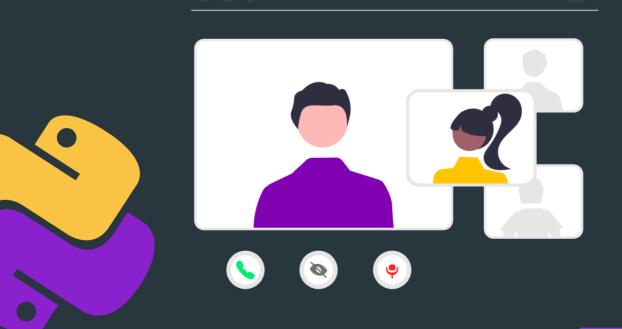
#### What if something happens that is not covered in CoC?

For any incidents faced during the conference that are not covered by CoC, please contact the 2021/ helpdesk to sort the issue out. If you think the incident is serious or involves concerning behavior, please report the incident to out CoC workgroup immediately.

# How will the CoC be enforced in a virtual conference?

All the communication channels for the conference, including the Hopin chat, booths, Zulip streams would be moderated by PyCon India volunteers to ensure that the attendees follow the CoC during all their interactions. Both platforms support chat history and logs, which can be used in case of an incident to review the evidence. I have concerns regarding another attendee who will be attending the conference. Whom can I reach out to? What can you do about this?

If you have any concerns regarding another individual(s) attending the conference, please contact the members of our CoC workgroup and describe your concerns to them. The members will contact you further and decide what action needs to be taken.



#### **Outreach Partners**











#### **Fine Print**

Design and illustrations by Aravind Sekar and Tanya Jain

Content by Nikhil Maan and Vipul Gupta







