



CODE FOR PAKISTAN ANNUAL REPORT 2023

KEYNOTE

On a hot summer day in Peshawar, I was both humbled and blown away as 47 women interns travelled far and wide across Khyber Pakhtunkhwa to take center stage and present what they had learned and created during the Women's Civic Digital Internship. In that moment, I understood the impact of our team, programs, and mentors on the lives of actual people.

Just days prior, we had celebrated a big milestone: Code for Pakistan's 10th anniversary. And a few weeks later, we launched a new Fellowship in partnership with the Gilgit-Baltistan Government that has, among other things, unlocked the potential of Volunteer Tourism in Pakistan.

Witnessing this kind of impact fills me with gratitude and pride towards our team and all our committed collaborators who work with passion and optimism to make Pakistan a better place for all of us.

It takes a village. Thank you for being a part of ours.



Sheba Najmi, Founder

KEYNOTE

2023 was an amazing year of activity and growth for CfP. We celebrated our 10th Anniversary, which brought together friends and colleagues from past and present together to celebrate with us.

We completed our organizational restructuring to position ourselves better for future endeavors – all thanks to the leadership of the board and executive management. We designed programs and activities to improve civic engagement and public service delivery by the government. We explored unchartered regions, established contacts, and made new friends in faraway places.

Thank you for coming along and being part of our journey.



Shaji Ahmed, CEO

ABOUT

At Code for Pakistan, we stand at the forefront of the global Code for All movement, driven by an unwavering belief in the power of people.

Our journey goes beyond the leveraging of technology; it's about thoughtfully rethinking how communities and governance can work better for everyone.

Together, we can build a future where government works for and with the people.

VISION

A government that works for everyone, seamlessly

MISSION

Harness the power of people and technology to build a better, citizen-centered ecosystem of governance

IMPACT

400+

children benefited from trainings through Volunteer Tourism in Gilgit-Baltistan

47.5 %

of women interns employed through KP Women's Civic Digital Internship

80+

doctors from 8 hospitals trained to use Healthcare Associated Infections App

300+

people joined Guftugu community sessions to brainstorm ideas

15

teams from across Pakistan mentored in the Jazz 5G Innovation Hackathon

4

new fellows inducted in the Gilgit-Baltistan Government Fellowship

JUNE 2023

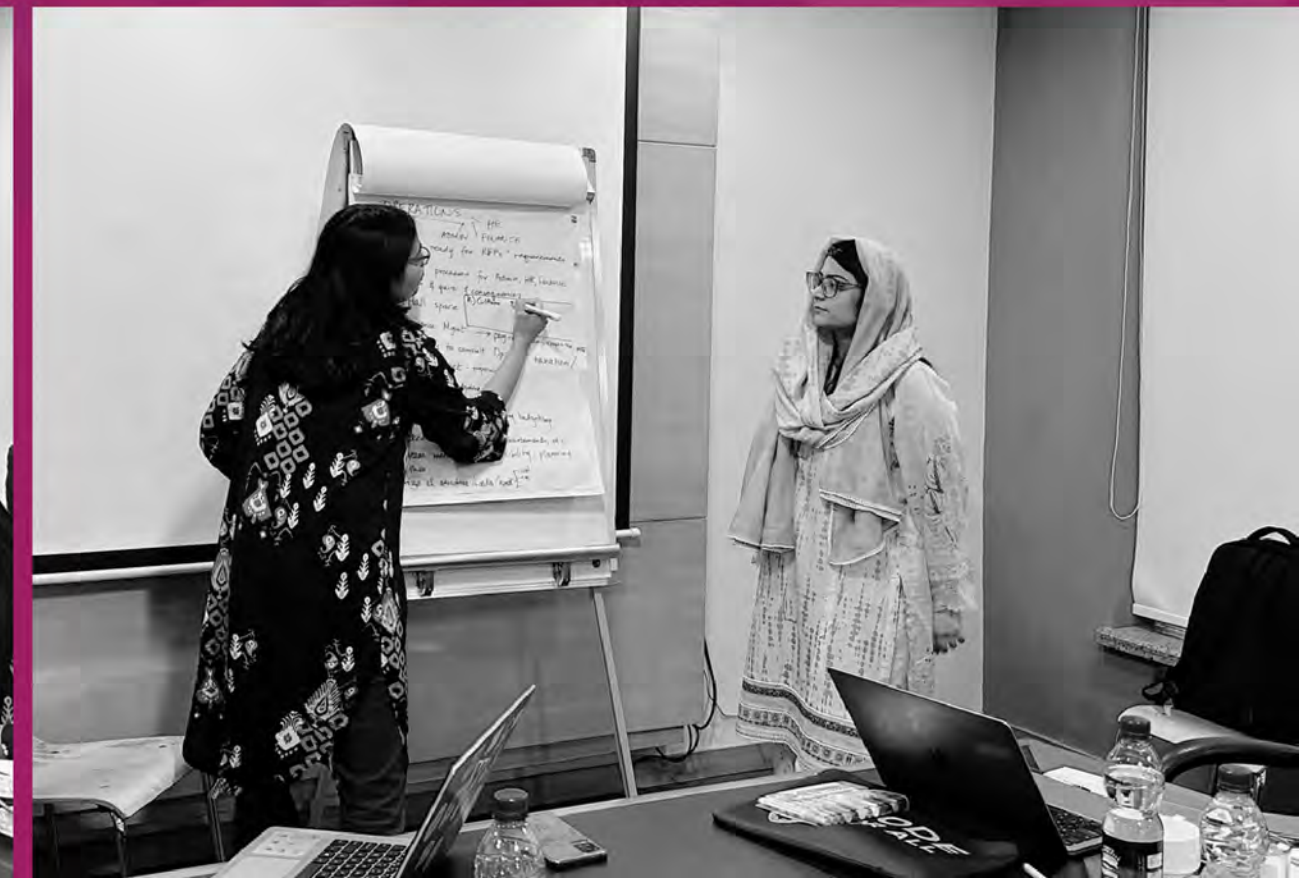
10TH ANNIVERSARY

This year we celebrated our 10th year as a civic technology organization. We continue to extend our services and apply a focused approach on utilizing technology to strengthen community involvement. Our goal remains to work alongside the government to improve systems for the future, and to explore technology to better serve and empower the citizens.

JUNE 2023

STRATEGY

As technologists, one of the most powerful things we can do is reimagine and plan concrete steps for a future we want to live in. We are committed to scaling our impact to more cities, and ensuring long-term sustainability of our solutions by proactively engaging with the government. We want community organizations and individual citizens to take more informed action to enhance productivity at the grassroots level through our initiatives.



PROGRAMS



**GOVERNMENT
FELLOWSHIPS**



**WOMEN'S CIVIC
INTERNSHIPS**



**SERVICES +
SOLUTIONS**



**COMMUNITY
ENGAGEMENT**

PROGRAMS

GOVERNMENT FELLOWSHIPS

Each year, we identify the brightest technology minds in Pakistan, guiding them towards creating meaningful change. Our Fellowship program provides comprehensive training, mentorship from industry experts, and a unique opportunity to collaborate directly with government departments. The fellows employ technology solutions to enhance public service delivery. This initiative is centered around collaborative effort, exchange of innovative ideas, and a collective goal of forging a more efficient and inclusive government for all.

GILGIT-BALTISTAN

We partnered with Gilgit-Baltistan Government's Performance Management & Reforms Unit (**GB PMRU**) to launch the Gilgit-Baltistan Government Innovation Fellowship. This is the first expansion of our **Fellowship Program** outside Khyber Pakhtunkhwa. The Fellowship assists GB PMRU in implementing e-governance, monitoring, and reform objectives while promoting digital governance and civic engagement in the province.

The goal of the Fellowship is to create innovative digital solutions that focus on the needs of citizens, ensuring sustainability and cost-effectiveness for our government partners. These solutions are developed using open-source technologies, offering the versatility to be replicated and redeployed across departments and cities facing similar challenges and needs.

4

FELLOWS
INDUCTED

100

OFFICIALS
TRAINED

5

SOLUTIONS
DEPLOYED

DIGITAL SOLUTIONS

Ongoing Projects

Tasks Management System

A digital tool to streamline task management within the GB government, fostering better coordination and communication.

Human Resource Management System

A digital platform for efficient government record-keeping, enhancing decision-making processes.

Performance Management & Appraisal System

An online system to evaluate district administration and departmental performance through KPIs, ensuring accountability and progress monitoring.

Upcoming Projects

Vehicle Confiscation and Allotment System

An online system for transparent and efficient management of confiscated vehicles.

GB Open Data Portal

A web portal to democratize access to governmental data, promoting transparency in Education, Planning, and Tourism.

Visit GB App Enhancements

Ongoing improvements to the Visit GB app, improving tourist experiences and connectivity with local services.

VOLUNTEER TOURISM

We launched Volunteer Tourism in Pakistan for the first time as part of the GB Fellowship. The program offers sustainable tourism, offering eco-friendly and culturally rich experiences that benefit both travelers and the local community.

The pilot focused on education and ran for 10 days before winter holidays in schools across Hunza and Skardu. The sessions were delivered by voluntourists from different parts of Pakistan. Our team collaborated closely with the school principals to understand their needs and match volunteer skills with relevant schools.

We received an overwhelming response to our call for volunteers despite challenging weather conditions in Gilgit-Baltistan. In the first round, six dedicated volunteers were placed and successfully completed their volunteer activities.

PROGRAMS / GOVERNMENT FELLOWSHIPS / GILGIT-BALTISTAN

FACTS + FIGURES

100+

volunteer
applicants

413

students
participated

2

districts
covered

28

teachers
trained

5

schools
participated

PROGRAMS / GOVERNMENT FELLOWSHIPS

KHYBER PAKHTUNKHWA

The KP Fellowship is a 6-month mentored program where a cohort of 20 fellows – with backgrounds in software development, user research, product design, and digital marketing – are selected to collaborate with different government departments to build digital services, inspire citizen engagement, and improve government processes.

PROGRAMS / GOVERNMENT FELLOWSHIPS / KHYBER PAKHTUNKHWA

FACTS + FIGURES

126

fellows graduated with over 90%
employment rate

45

digital services developed

1.4 M+

users served saving 121,549
hours in processing time

7

cycles completed

400

officials trained

31

departments facilitated

PROJECTS

We worked closely with KP Information Technology Board's ICT Facilitation Center to enhance and maintain existing projects that were launched over the years, focusing on upgrades and improvements to running systems.



Mercy Petition System for Inspector General Prisons, KP



Citizens Feedback app for Halal Food Authority, KP



Case Management System for Advocate General's Office, KP



Online Complaint Redressal System for Public Safety and Police Complaints Commission

PROGRAMS

WOMEN'S CIVIC INTERNSHIPS

Through this program, women interns acquire technical skills, gain hands-on experience working on government projects, and participate in an agile development and deployment process. Our interns receive one-on-one mentorship, access to female role models, and opportunities to establish industry connections crucial for their transition into the digital workplace.

KHYBER PAKHTUNKHWA

We supported
women
empowerment
by designing a
women centric
digital
internship

In this collaborative effort, alongside our partners at the KP IT Board and the World Bank, we designed a 6-month program to upskill and train women from remote areas of KP, through a thoughtfully designed curriculum, preparing them for careers in software design, development, and data science, to name a few.

The KP Women's Civic Digital Internship strives for digital empowerment, and equipping our communities with the right tools to enable them to work more efficiently. We are inspired by how these women embraced the opportunity to enhance their skills and develop themselves professionally.

FACTS + FIGURES

47%

interns employed

56

interns upskilled

Remote program encouraged higher participation

2

internship cycles completed

65+

soft and technical skills taught

Guided mentorship by industry experts to optimize quality of learning

PROGRAMS / WOMEN'S INTERNSHIPS

DEMO DAY JOB FAIR

The journey of upskilling the women interns has inspired 47.5% of them to secure positions in mainstream workforce. Today, these women are leading the way for countless others who dream of a career. Each line of code they write is a step towards a more inclusive future for women in Pakistan's workforce landscape.



PROGRAMS / WOMEN'S INTERNSHIPS / KHYBER PAKHTUNKHWA

DEMO DAY + JOB FAIR



PROGRAMS / WOMEN'S INTERNSHIPS / KHYBER PAKHTUNKHWA

DEMO DAY + JOB FAIR



PROGRAMS / WOMEN'S INTERNSHIPS / KHYBER PAKHTUNKHWA

HIGHLIGHTS

The KP Women Civic Digital Internship is much more than just an internship. It is an incredible opportunity for aspiring women in the field of IT to gain valuable experience, learn new skills, and receive guidance by a team of experts. The program is designed to provide a platform for young women to thrive and grow in a field that is often dominated by men.

Aqsa Khan, Data Science



HIGHLIGHTS



Osmia is a resident of Timergara, a beautiful town located on the footsteps of snow-capped mountains in Lower Dir. She has a Master's Degree in Computer Science, and is mother to a newborn baby. Her responsibilities both to her baby and her family prevent her from seeking employment outside her home.

In October 2022, Osmia applied for the 6-month internship to improve her skills and be able to work from home. She was selected as one of 50 beneficiaries of the second cohort of the internship program.

[READ MORE](#)

PROGRAMS

COMMUNITY ENGAGEMENT

Community is at the heart of everything we do. Through all our work, from civic hackathons and tech camps to our recently launched community gatherings, Guftugu, we are committed to a society that is better when people are more informed and involved.



BUILDING BRIDGES, FOSTERING CHANGE

PROGRAMS / COMMUNITY ENGAGEMENT

JUNE-SEPTEMBER 2023

GUFTUGU


Guftugu means discourse. We launched a series of Guftugus this year to reconnect with our community, amplify diverse voices, and ignite community-driven solutions. We collaborated with digital spaces in Karachi, Peshawar, and Islamabad to harness the power of people and propel meaningful dialogue and innovative change. At Karachi Guftugu, we revisited the roots of our journey from a 2013 civic hackathon to a dynamic community-led platform.



PROGRAMS / COMMUNITY ENGAGEMENT / GUFTUGU

REPURPOSING TRASH

Aimah Moiz, a Karachi Guftugu participant, launched Wrap Up, a project that turns wrappers into upcycled products. Encouraged by our volunteer network, which provided technical support, contacts, and advice, Wrap Up's impact goes beyond recycling. It is a force for creating jobs, involving students in environmental efforts, reinvesting in education, and fostering a culture of sustainability and community development.



I really enjoyed the opportunity and format of Guftugu to engage with other like-minded citizens to address important civic tech issues. For me, a cleaner Karachi is on top of my list. - Aimah

[READ MORE](#)



PROGRAMS / COMMUNITY ENGAGEMENT / TECH CAMPS

NIC TECH CAMP

A unique mix of participants, from psychology majors to engineers and computer scientists, fueled a diverse pool of ideas aimed at achieving net zero emissions.

Fueling young minds to tackle climate change was the inspiration behind the NIC Tech Camp 2023, a joint initiative between Code for Pakistan and the National Incubation Center (NIC) in Peshawar. The three-day event brought together students, with a significant number of women from seven universities in Khyber Pakhtunkhwa, to collectively engage in a collaborative journey of innovation and problem-solving.

MARCH 2023



5G HACKATHON



We launched the 5G Innovation Hackathon in collaboration with Jazz and NUST to explore 5G in Pakistan. The Jazz 5G Innovation Lab at NUST SINES is Pakistan's only 5G research facility, offering a cutting-edge environment for innovators to test their ideas. Teams from all over Pakistan proposed innovative solutions using 5G technology, from Peshawar to Swat, Faisalabad, Rahim Yar Khan, Sukkur and Karachi.

PROGRAMS / COMMUNITY ENGAGEMENT / HACKATHONS

SEPTEMBER-NOVEMBER 2023

5G HACKATHON

Applications received on use of 5G covered healthcare, logistics, smart cities, energy, and agriculture. Shortlisted teams were given orientation on 5G, and provided mentoring support to refine their ideas. Teams were invited to use the lab at SINES-NUST to build working prototype, which were assessed over multiple rounds by a team of judges. The finals will be held sometime next year.



[READ MORE](#)

PROGRAMS / COMMUNITY ENGAGEMENT / HACKATHONS

SEPTEMBER-NOVEMBER 2023

5G HACKATHON

21

cities
across
Pakistan

300+

applications
received

23%

female
participation



PROGRAMS

SERVICES + SOLUTIONS

Over the years, we have partnered with more than 30 government departments across the federal and provincial levels, developing 50+ digital solutions and services to simplify citizen access to government services and make the government more accessible, open, and transparent.



HCAI APP – PHASE II

Tackling Healthcare Associated Infections (HCAI) with technology

In response to the COVID-19 pandemic, we partnered with the World Health Organization (WHO) and Pakistan Institute of Medical Sciences (PIMS) to launch the HCAI Surveillance Application in 2022.

The app records and monitors HCAI cases across six key categories, including Surgical Site Infections (SSIs), Catheter-Associated Urinary Tract Infections (CAUTIs), and Central Line-Associated Bloodstream Infections (CLABSI).



FACTS + FIGURES

In 2023 we developed and deployed the Catheter-Associated Urinary Tract Infection (CAUTI) module, and updated the Surgical Site Infection (SSI) module. We also trained over 80 healthcare professionals on the newly implemented modules.

80+

doctors
trained

230

data points
collected

100+

app downloads
on Play Store

8

hospitals
partnered



FLOODLIGHT

The screenshot shows the Ushahidi FloodLight mobile application interface. At the top left is the Ushahidi logo. Below it, the 'FloodLight' header is visible. A contact email address, 'mubassir@codeforpakistan.', is listed. A prominent yellow button labeled 'Add new post' with a plus sign is present. A vertical navigation menu on the left includes options for 'Map view', 'Data view', 'Activity', and 'Collections', each with a corresponding icon.

Results: 1161

Surveys	Source	
<input checked="" type="checkbox"/>	Relief Camps / Shelters	199
<input checked="" type="checkbox"/>	Relief Needed	92
<input checked="" type="checkbox"/>	Flooded/Affected Areas	146
<input checked="" type="checkbox"/>	Relief Collection Points	125
<input checked="" type="checkbox"/>	Fundraisers / Charities	108

FloodLight is a data-mapping platform serving as a resource for flood-related information. In the 2022 floods it helped coordinate flood relief activities through collaboration with NGOs like Al-Khidmat, Akhuwat, and volunteers through social media.

This year, we worked on a detailed product roadmap and user experience design, compiled user requirements using input from various stakeholders, and designed user journeys to help refine Floodlight's design and functionality.

PRECISION MEDICINE LAB

PML blends data, biology, and medicine to improve individual cancer patient outcomes

Our partnership is built on a foundation of shared passion. In 2013, Dr. Faisal Khan (Principal Investigator at PML) and Code for Pakistan co-created the first civic hackathon in Peshawar, igniting a spark of innovation that continues to burn bright. Today, we are fueled by a shared vision for a healthier and a better digitally equipped Pakistan.

Pink Registry

Civic Breast Cancer Registry System in Pakistan

Wings of Nature

Biodiversity Showcase for Insect Identification and Data Collection

Eco Metrics

Crowdsourced Environmental Quality Monitoring



TDEA ELECTION WATCH

We partnered with the Trust for Democratic Education and Accountability (TDEA) to enable a transparent and informed 2024 election through the **TDEA Election Watch**. This project leveraged the Ushahidi platform, enabling real-time data collection and reporting on election day observations across Pakistan.

Our collaboration involved:

- Deploying Ushahidi on TDEA servers
- Integrating Ushahidi with TDEA's website
- Creating survey forms
- Training TDEA personnel

PROGRAMS / SERVICES + SOLUTIONS

NOVEMBER 2023

HARMONY CHECKER

We partnered with the Youth Development Foundation (YDF) and the Government of Punjab's Human Rights and Minorities Affairs, to create a content tagging tool.

This tool identifies hateful and discriminatory material in school textbooks. It helps authors and governing bodies monitor content that goes against interfaith harmony, adhering to national and international regulations for minorities and marginalized communities.



**Human Rights & Minorities Affairs
Govenment of the Punjab**

TAKE A TOUR

PROGRAMS / SERVICES + SOLUTIONS

HDF DIGITIZATION

We started working with the Human Development Foundation (HDF) to help identify key areas where digitization can significantly enhance the efficiency, accuracy, and accessibility of operational data that is regularly collected at HDF.

A significant amount of data is not being utilized in decision making or analysis at any level within the organization. Our work there is going to help bring HDF to the modern era and in the process improve lives of thousands that are affected by the wonderful work of HDF.

NOVEMBER 2023



THOUGHT LEADERSHIP

It is critical for 21st century government leaders to develop new skills and deepen their understanding of how to navigate within our current system. We provide leaders with the tools they need, to do better and act faster, and we empower them to make effective, data-driven decisions.



THOUGHT LEADERSHIP



Shaji Ahmed participated in consultative sessions on the development of the **KP Enterprise Architecture Framework**, a comprehensive digital services document that imagines the entirety of Khyber Pakhtunkhwa Government's digital infrastructure.

Code for All
Summit 2023

SEPTEMBER 18-21

LIGHTNING TALK

Floodlight: empowering communities to track and respond to floods in Pakistan

This session shares the story and impact of "FloodLight" an online initiative aimed at creating a comprehensive data platform for flood mapping in Pakistan.



Ali Raza
Code for Pakistan



Mubassir Hayat
Code for Pakistan

Ibraheem Saleem, Ali Raza, and Mubassir Hayat delivered lightning talks titled "**Floodlight: Empowering Communities to Track and Respond to Floods in Pakistan**" and "**Tracking Civic Tech Impact in Pakistan**" at the Code for All Summit 2023.

THOUGHT LEADERSHIP



Sheba Najmi featured on a **panel discussion** at **IBA Karachi** alongside leading women engineers. She shared her experience and journey, illustrating the determination of women to transcend barriers and succeed in the technology sector.



Shaji Ahmed and Asim Ghaffar participated in a panel discussion organized by **Meethi Zindagi**, titled **Diabetes Care Needs to be Fair** to brainstorm on making diabetes care for children and young people more affordable and accessible.

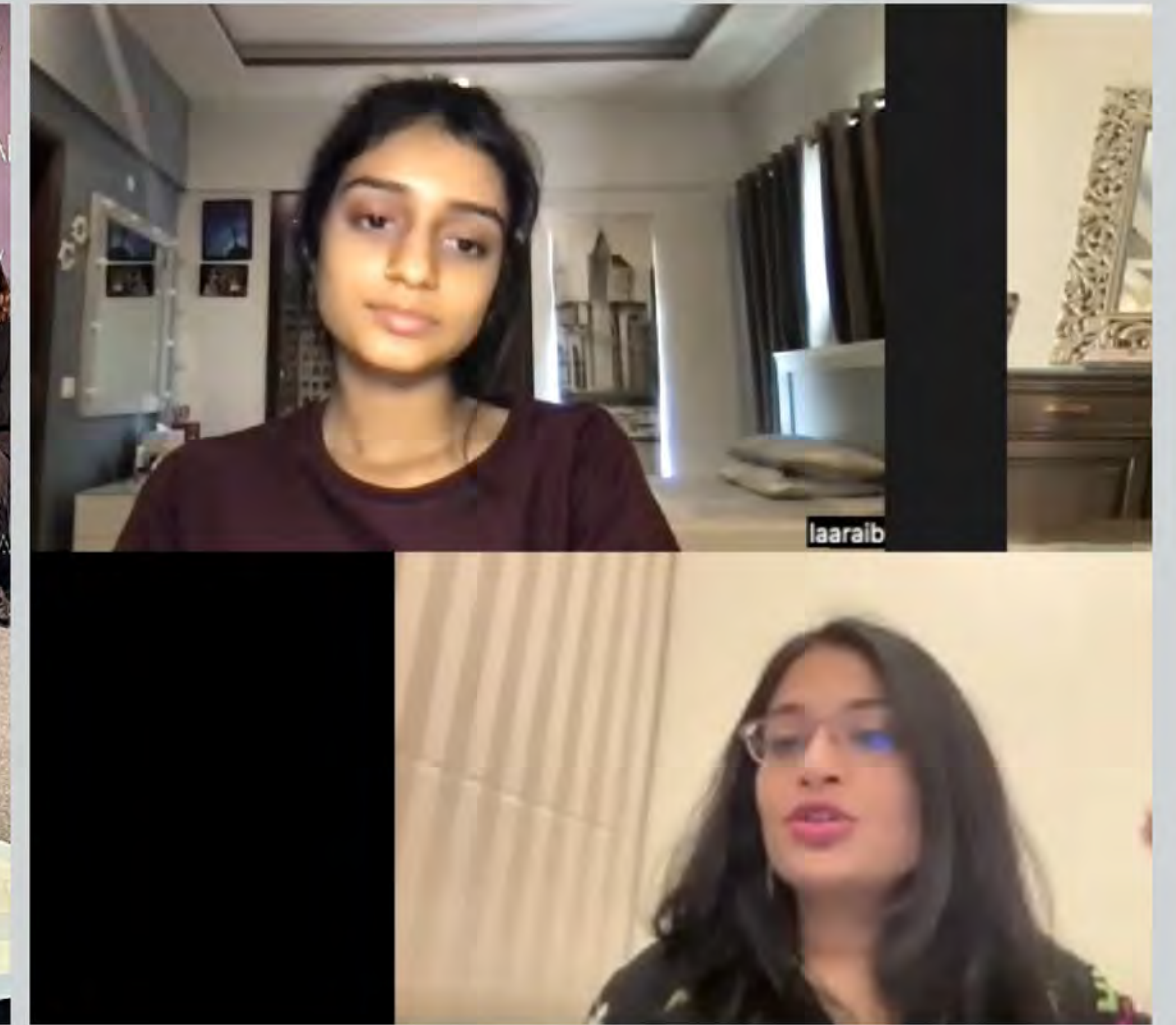
THOUGHT LEADERSHIP



Shaji Ahmed featured on the **Seminar on Technology for Election Integrity** hosted by FAFEN to discuss the impact of technology on elections.



Shaji Ahmed and Ali Raza were invited to discuss the importance and influence of AI in today's landscape by **Tabadlab**.



Sheba Najmi featured on a podcast **Tech Talks with Ali and Laraib** which is a technology podcast started by two college students.

COMMUNICATIONS

Enhanced communication strategies have bolstered our operations, aligned with our objectives, and deepened connections with our primary stakeholders. Our dedication to transparent and uniform messaging has been a key driver of success, promoting expansion throughout our organization.



6.3 k
followers



1.2 k
followers



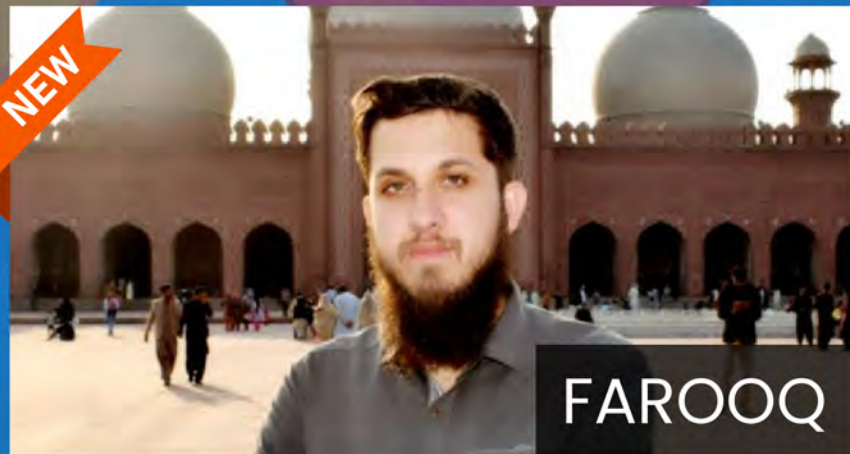
24 k
followers



3.4 k
followers



WELCOME + THANKS



Samina was a cornerstone of our team, demonstrating exceptional dedication and leadership. Her contributions have been invaluable, and their positive influence resonates through every aspect of our work.



WHAT'S NEXT

Stay up to date on our activities and programs on our website and feel free to write to us.

Email us on info@codeforpakistan.org

Visit our website at www.codeforpakistan.org

Don't forget to follow us on our social media platforms for regular updates!

