



OASIS
SUMMIT 2023

Pop-up Handbook

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Venue

Bangalore International Centre (BIC)



ASPIRe



GitHub

PROJECT
Tech4DEV
Technology partner for social sector



TinkerHub

1. Bahmni

By ThoughtWorks

2. Chitrlekha

By PlanetRead x AI4Bharat

3. ERPNext for Donor Management

4. ERPNext for Volunteer Management

5. Glific & Data Development Platform

by Project Tech4Dev

6. Jugalbandi

By OpenNyAI

7. Kobo ToolBox

8. Metabase

9. Plane

10. Open Source Products for Education

By Avanti Fellows

11. Samaaja

By Reap Benefit

1. Bahmni By Thoughtworks

Equitable and accessible Digital Health for all

Website: <https://www.thoughtworks.com/>

Description

Bahmni is an easy to use, complete, open source Hospital Information System (HIS) and Electronic Medical Record (EMR) under development since November 2012. Bahmni aims to meet the needs of healthcare providers to improve efficiency and quality of patient care, reduce errors in clinical encounters and advocate for issues related to public health.

Bahmni is:

- **An Integrated Solution** - Manage patient information across registration, point of care, investigations, and billing
- **Intuitively Designed** - Simple to use at the point of care, with minimal training required
- **Flexible** - Allows for unique workflows and processes based on each hospital's needs
- **Modular** - Choose parts of Bahmni and integrate with existing systems
- **Infrastructure Appropriate** - Besides cloud, it also can be easily hosted and operated at the hospital site, requiring no dependence on Internet
- **Adaptable** - Bahmni can be used on a variety of care contexts, general or disease specific, and on devices including mobile, tablets and laptops

Founders

Thoughtworks Technologies

Jan Swasthya Sahyog

Highlights

- **Scalable** - Used in 50+ Countries and over 500+ hospital/units, favored choice in many African/Asian countries
- **DPG** - Listed on DPG Registry towards Sustainable Development Goal 3 - Good Health and Wellbeing
- **Clinical Trials** - Clinical tool of choice for worldwide MDR-TB drug trials across 29 countries
- **Comprehensive And Interoperable Foss HIMS** - Combines and enhances existing open source products into a single solution designed for Healthcare Practitioners and Health Service Providers in the ecosystem
- **Futuristic** - Interoperable and secure, as data privacy support following DEPA act, NDHM integrated
- **Interoperable** - Interoperable over established standard - HL7 v2, FHIR, LOINC, ICD, SNOMED etc.
- **Integration:** - Provides ready integration with country-level ecosystem integration, namely ABDM, OpenHIE
- **Ecosystem:** - Coalition of organizations to support and evolve Bahmni. Have enabled many organizations to establish a business model through implementation services

Target audience

Healthcare Providers/Practitioners

Link to demos

<https://bahmni.atlassian.net/wiki/spaces/BAH/pages/61997323/Bahmni+Online+Demo>

Source code

<https://github.com/bahmni/>



2. Chitralekha By AI4Bharat & PlanetRead

Bridging India's language barrier by AI-driven multilingual transcreation of videos. Automating SLS (Same Language Subtitling) for literacy and accessibility for 1.4 billion Indians.

Website: <https://chitralekha.ai4bharat.org/>

Description

Chitralekha is an open-source AI-powered video transcreation platform with an integrated workforce management system, which enables end-to-end transcreation of a video from one language to another through the stages of transcription, translation and voice-over for the translated language.

Leveraging open-source Automatic Speech Recognition (ASR), Neural Machine Translation (NMT) and Text-to-Speech (TTS) models developed by AI4Bharat (IndicASR, IndicTrans and IndicTTS), Chitralekha can auto-generate transcription and translation subtitles and voice-over (for single speaker video) for the translated text for any given video.

Chitralekha's interactive subtitling interface is developed using open-source subtitle editing tool, Subplayer (<https://subplayer.js.org/>).

Technologies used: Django REST Framework, React.js (Material UI), PostgreSQL.

Founders

Mitesh M. Khapra

is an Associate Professor in the Department of Computer Science and Engineering at IIT Madras. He heads the AI4Bharat Research Lab at IIT Madras which focuses on building datasets, tools, models and applications for Indian languages. His research work has been published in several top conferences and journals including ACL, NeurIPS, TALLIP, EMNLP, EACL, AAAI, etc. He has also served as Area Chair or Senior PC member in top conferences such as ICLR and AAAI.

Brij Kothari

leads the Billion Readers (BIRD) initiative. He researched and implemented Same Language Subtitling (SLS) on mainstream TV and streaming platforms for a billion viewers' lifelong reading practice, from concept (1996) to national policy (2019). Brij is an Ashoka Fellow, Schwab Social Entrepreneur, recipient of the International Literacy Prize. He has a Ph.D. in education from Cornell University. He is also the founder of PlanetRead.org and BookBox.com, committed to scalable solutions for reading and language learning.

Highlights

- Chitrlekha is powered by AI models for Translation and Transcription in all 22 official languages of India, supporting AI based voice-over for 15 Indian languages. BIRD & PlanetRead are leveraging Chitrlekha to automate SLS creation in most major Indian languages. They plan to leverage the platform for subtitling at least 1000 hours of entertainment content in 12 Indian languages.
- NPTEL, one of India's leading education portals for higher education is currently Chitrlekha's most valued user having completed over 500 hours of transcriptions and over 650 hours worth of video translations covering 1000+ videos into various Indic Languages. This will enable students to learn from the best academicians in their regional languages.
- Tic Tac Learn, one of India's leading educational channels for children, have transcribed 175 Maths and Science videos, since subtitled videos are known to improve the reading skills of children.
- Chitrlekha is gaining attention by various content production agencies, looking to bridge language barriers for their content. Organizations like Ekstep, Pratham and AuroMarathi have also shown interest.
- With a focus on educational content alongside other informative and creative videos, Chitrlekha hopes to bring out an impact in the way information is accessed across India by the local communities

Target audience

Educational Platforms, Content Creators, Media Houses

Link to demos

https://youtu.be/YBWgW2cf_eU?si=3a_MUQzXeMsOiso2

Source code

<https://github.com/AI4Bharat/Chitrlekha>

ERPNext

3. ERPNext for Donor Management

By Frappe

Fuel your donor management with simple and effective ERP system

Website: <https://erpnext.com/>

Description

ERPNext is an open-source, web-based enterprise resource planning (ERP) software designed to assist organizations with various functions, including donor management. It provides features for managing finances, donors, and various other aspects of nonprofit organizations and businesses. It can be customized to meet specific donor management needs, including tracking donations, donor information, campaigns, and more. ERPNext is known for its flexibility and open-source nature, making it a potentially valuable tool for nonprofit organizations seeking comprehensive donor management solutions.

Highlights

- **User-Friendly Interface** - An intuitive and user-friendly interface makes it easier for your team to adapt to and use the tool effectively.
- **Donor Retention** - Identify at-risk donors and implement strategies to improve donor retention rates. Send personalized appeals to lapsed donors to re-engage them.
- **Grant Management** - If applicable, manage grants and applications within the tool. Keep track of deadlines, requirements, and outcomes.
- **Automation** - Automate routine tasks such as sending thank-you emails, donation receipts, and reminders for recurring donations. This saves time and ensures timely communication.

Target audience

Social impact organisations across India

Link to demos

<https://donor.t4gc-erpdemo.co.in/>

Source code

<https://github.com/frappe/erpnext>

ERPNext

4. ERPNext for Volunteer Management

By Frappe

Empower volunteers, amplify impact with an easy to use solution

Website: <https://erpnext.com/>

Description

A specialized tool designed to streamline and enhance the processes associated with recruiting, coordinating, and engaging volunteers within organizations or nonprofits. It offers a range of features and functionalities to simplify the management of volunteers, making it easier for both organizations and volunteers to collaborate effectively.

Highlights

User-Friendly Interface

- Streamlining the process for registering and welcoming new volunteers.
- Creating and maintaining comprehensive volunteer profiles that include contact details, skills, interests, availability, and preferences.

Scheduling and Shift Management

- Efficiently organizing volunteer schedules and shifts for various activities, events, and projects.

Volunteer Opportunities

- Posting and showcasing a wide array of volunteer opportunities and roles within the organization.

Volunteer Matching

- Pairing volunteers with suitable opportunities that align with their skills, interests, and availability.

Task Assignment and Delegation

- Assigning specific tasks and responsibilities to volunteers within a project or event.
- Entrusting leadership roles or responsibilities to experienced and capable volunteers.

Reporting and Analytics

- Generating insightful reports that shed light on volunteer hours, participation rates, and overall impact.
- Monitoring and analyzing volunteer demographics and engagement trends to refine our approach continually.

Target audience

Social impact organisations across India

Link to demos

<https://vm.t4gc-erpdemo.co.in/>

Source code

<https://github.com/frappe/erpnext>

5. Glific & Data Development Platform

By Project Tech4Dev

Project Tech4Dev's mission is to build digital solutions using open source technology to drive strategic transformation, operational efficiency and scale expansion for social sector organizations.

Website: <https://projecttech4dev.org/>

Description

Project Tech4Dev is an initiative to build an ecosystem of software and design companies, NGO partners, and foundations working towards creating social impact in developing countries. It aims to integrate technology into development program design, build scalable and sustainable solutions, build technology resilience amongst NGOs, and leverage open source technology via digital public goods.

Founders

Donald Lobo

is the founder of Project Tech4Dev, an open source technology initiative that focuses on enabling NGOs to get the most out of technology. He also serves as Executive Director of the Chintu Gudiya Foundation, his private family foundation based in San Francisco, CA, that funds US-based NGOs and organizations developing open source software for the public good. Their current focus is working with NGOs in India.

Lobo was also the Co-Founder and Lead Developer of CiviCRM, an organization founded with the goal of giving the sector a free, liberal, and open alternative to their software needs. Lobo moved from Mumbai to the US in 1989 to pursue a Masters degree in computer science, Lobo subsequently joined Yahoo's founding team as the "Technical Yahoo."

Lobo began thinking about investing his time & resources in causes close to his heart early in his life and started his philanthropic journey in 2000 when he founded the Chintu Gudiya Foundation. Understanding pressing and neglected issues on the ground and taking big bets on organizations with the most effective solutions are integral parts of Donald's philanthropy.

Highlights

- Over the last 4 years, Tech4Dev worked across various sectors in the impact space. We have created a strong NGO network, access to experts, and deep technology expertise to build strong solutions. We feel confident and well placed to maximize the reach and impact of our initiative.
- Currently close to 130 non-profits are using our platforms and we aim to take this count to 300 non-profits globally. So far we have built/supported development of 4 open source platforms (Glific, Avni, Development Data Platform/Dalgo, Fi (not operational)), collaborated with 10+ technology partners and impacted 100+ partners through our solutions.
- We aim to increase the number of open source platforms to 7 in the next 3 years.

Target audience

Nonprofit organisations

Link to demos

<https://youtu.be/r6pl3YnINws>

Source code

Glific- <https://github.com/glific>

Development Data Platform/Dalgo- <https://github.com/DevDataPlatform>

OpenNyAI

6. Jugalbandi By OpenNyAI

Powering breakthrough conversational AI solutions for every Indian

Website: <https://www.jugalbandi.ai/>

Description

Jugalbandi is a software stack which uses the power of AI to power conversations in any domain across Indian languages. It combines the power of messaging interfaces like WhatsApp/Telegram, large language models and your own knowledge base.

Founders

OpenNyAI ([Opennyai.org](https://opennyai.org)) and **Bhashini** (<https://bhashini.gov.in/en/>)
have built this bot together

Highlights

- Jugalbandi is being demonstrated at the G20 Summit from 9-10 September 2023 in Delhi. It will cover all information on G20 and Indian tourism in all Indian and G20 member country languages
- Jugalbandi has also been used to create citizen empowering tools such as for Bandhu - a chatbot that provides access to housing for migrant workers across India
- Another impactful use case has been in the case of JAGRIT - a chatbot that provides legal awareness and legal aid in matters of domestic violence and motor vehicle accident cases
- Across each implementation, Bhashini enables information dissemination in multiple Indian languages, in both voice and text

Target audience

CSOs, grassroots organisations, fellow technologists who may be interested in further co-building along with any technology service providers

Link to demos

<https://www.youtube.com/watch?v=ooxKOYs0Amw>

<https://drive.google.com/drive/folders/1j2PnV2-cSF0T-UbiP2NWHviKzMooTSNT?usp=sharing>

Source code

<https://github.com/OpenNyAI>



7. Kobo ToolBox

Free and robust data collection software for social impact organisations

Website: <https://www.kobotoolbox.org/>

Description

It is a comprehensive platform for data collection, management, and visualisation, enabling worldwide research and social good initiatives. It offers open source data systems and technology to support humanitarian action, development, environmental protection, peace-building, and human rights initiatives.

Highlights

- Empowers users to design customized forms that precisely align with their requirements, guaranteeing the accuracy and currency of collected data.
- Streamlines the data collection and analysis process, facilitating well-informed decision-making and progress monitoring.
- Offers project planning and management capabilities for enhanced organizational efficiency.
- Ensures data security and flexibility in form design, providing users with peace of mind and adaptable solutions tailored to their specific needs.

Target audience

Social impact organisations across India

Link to demos

<https://www.kobotoolbox.org/sign-up/>

Source code

<https://github.com/kobotoolbox>



8. Metabase

Easy-to-use and effective data visualisation for social impact organizations

Website: <https://www.metabase.com/>

Description

Metabase is an open-source business intelligence and data analytics tool. It allows users to create, view, and share dashboards and reports based on their data.

Metabase supports a variety of databases and data sources, making it a versatile tool for exploring and visualizing data for decision-making. It's a popular choice for organizations looking for a self-service analytics platform that doesn't require extensive technical expertise.

Metabase is an open source software for nonprofits (NPO's) that provides a powerful interface that can be used by non techies.

Highlights

- Metabase serves as a comprehensive donor management tool, enabling organizations to efficiently trace donor information, monitor donation amounts, and assess campaign success rates. This data-driven approach provides valuable insights into donor behavior, empowering organizations to make informed decisions regarding future fundraising strategies.
- Additionally, Metabase facilitates the monitoring of program outcomes, allowing organizations to track the progress of their initiatives and measure the impact rate of their work. This involves quantifying the number of individuals served by each program or project, providing a clear understanding of the organization's reach and effectiveness.
- Moreover, Metabase supports organizations in optimizing their operational performance. It enables the evaluation of various operational aspects, including financial management and volunteer engagement, thereby promoting efficiency and effectiveness in the organization's day-to-day activities.

- In summary, Metabase offers a versatile platform that empowers non-profit organizations to enhance their donor relations, assess program impact, and streamline operational processes for greater overall effectiveness.

Target audience

Social Impact Organisations across India

Link to demos

<https://metabase.t4gc-erpdemo.co.in>

Source code

<https://github.com/metabase/metabase>



9. Plane

Effective and easy to use project management tool for social impact organisations

Website: <https://plane.so/>

Description

Plane is a simple yet powerful, open source project planning tool. With its intuitive UI and powerful features, Plane makes it easy to plan and track projects, assign tasks to team members, and monitor progress.

Enhance your performance, prioritise your privacy, and streamline your workflow - Plane enables social impact organizations to achieve goals with ease.

Highlights

- **Flexible Visualization** - Tailor your work visualization to your preferences. Effortlessly switch between List, Kanban, or Calendar views with just a few clicks.
- **Customizable Workflows** - Craft individualized issue states for each team, and expand them according to your specific requirements.
- **Effortless Importing** - Seamlessly transfer issues from your current issue tracker into Plane within minutes. Stay tuned for a self-hosted option, coming soon.

Target audience

Social Impact Organisations across India

Link to demos

<https://project.t4gc-erpdemo.co.in>

Source code

<https://github.com/makeplane/plane>



10. Open Source Products for Education

By Avanti Fellows

Open Source Technology Stack to enable access to quality education for low-income students.

Website: <https://www.avantifellows.org/>

Description

Avanti Fellows' Tech Stack is composed of 14 modules, including an innovative authentication and identification layer, a testing platform, a reporting platform and Plio, which enables conversion of videos into interactive lessons. Each tool has been built as a web-app that works well in low-network environments.

Together these tools help build a rich user profile that allows for personalized recommendations for self-learning and for class teachers

Founders

The project is led by **Akshay Saxena**, Co-Founder and Co-CEO, Avanti Fellows. Akshay is an Ashoka fellow, and was awarded the Draper Richards Kaplan Fellowship and Echoing Green Fellowship for his work at Avanti. He graduated with a Bachelor's from the Indian Institute of Technology (IIT) Bombay, attended Harvard Business School and helped start a medical device company in California before Avanti.

Between Akshay and our Co-CEO, **Vandana Goyal**, they have 3 decades of leadership experience in enabling children from disadvantaged backgrounds to access high-quality education working in the US and India. Vandana was appointed by the World Economic Forum as a Young Global Leader and I was the recipient of the Echoing Green, Draper Richards Kaplan Foundation and Ashoka Fellowships.

Through our impact work, we have thoughtfully brought onboard the top technology talent (both full-time and volunteers) in the country to strengthen our team and we work very closely with global senior technology executives who are invested in social impact in India. This includes executives with prior experience in Amazon, BCG, HeartFlow Inc, IIT Bombay and Teach For India.

Highlights

- Our main learning goal is to increase the number of students who remain on track in middle-school math and science. For student learning outcomes to improve, instruction needs to effectively adjust to individual learning levels (personalization), and increase the amount of time learners continuously engage with learning materials, at their diagnosed level (engagement).
- Existing research has demonstrated the effectiveness of 'Teaching at the Right Level' (TARL) type of interventions where students are re-grouped as per learning needs and provided remedial instruction (Banerjee et al., 2016). A recent evaluation Muralidharan et al. (2019) finds a 0.37 standard deviation improvement in math test scores after 4.5 months of exposure.
- Our tools are currently used by over 30,000 students from low-income communities in India, each learning for over 2 hours per week on average. Plio allows educators to take advantage of millions of existing educational videos to drive personalized learning. The tool already has a vast library of content (2,000+ videos, 1,00,000+ assessment items) that educators can choose from.
- Our assessment platform allows a variety of test formats including digital OMR, homework style assessments, and NTA style assessments. It has been scaled successfully to enable statewide testing for tens of thousands of students in parallel. Detailed reports go out to students after their test is done. We have also enabled easy sharing of links on Whatsapp for students to attend tests, view reports, and so on.

Target audience

Our stack has been designed with the rural, low-income student in mind. Over 30,000 students currently use the tool. They are added to WhatsApp groups where they receive lessons as simple URLs. We are currently adding additional functionality to allow students to continue learning through personalized lesson recommendations after completing pre-assigned lessons or quizzes.

Our platform focuses on allowing rural government school teachers in India to engage students in viable, effective at-home learning. Our tool focuses on local language content (currently Hindi), the medium of instruction for over 40M students in India. It is mobile first and web based - eliminating the need for dedicated apps or personal devices. It is open source, free to use and is currently being adopted and modified by government school systems across India.

Link to demos

Quizzing engine

<https://staging-quiz.avantifellows.org/quiz/64db298c279bcf3d1c983baf?apiKey=6qOO8UdF1EGxLgzwlBQN&userId=oasis> Plio : <https://app.plio.in/play/zhdwvardsc>

Source code

<https://github.com/avantifellows>



11. Samaaja By Reap Benefit

Samaaja: Bridging Communities, Bridging Technologies - Bridging India's citizens, communities and skill building through location based accessibility.

Website: reapbenefit.org

Description

Samaaja, a powerful digital public good, offers a low-code, no-code solution for efficient creation of location-based civic services and streamlined volunteer, student, first/final mile responder and citizen network management. It seamlessly connects organizations with users through platforms like WhatsApp, Telegram, and IVRS, while delivering diverse outputs such as dashboards and open data networks. Engineered with scalability in mind, Samaaja ensures adaptability to evolving technologies, utilizing the well-tested Frappe Low-Code Framework to facilitate rapid development and eliminate the need for extensive tech teams. This versatile tool empowers sectors to engage citizens and volunteers effectively, harnessing technology's prowess to magnify their impact

Founders

Kuldeep Dantewadia

co-founder, is a strong ethical leader. He has won several accolades including Ashoka's Lead Changemaker, MIT's Global Startup Weekend, Changelooms Fellowship, S3IDF Fellowship, StartingBloc Fellowship, and Architects of the Future. Under his leadership, Reap Benefit embarked on several initiatives creating new methods of environmental education and problem-solving. He has been instrumental in building a committed team at Reap Benefit and driving an 'action-driven' culture of collaboration, learning & innovation for the next phase of scale and growth.

Gautam Prakash

co-founder, has been the hacker-tinkerer, who has contributed to many if not all of Reap Benefit's solutions (tech and non tech), efforts at systemic impact (crowdsourcing data for High Court case etc), is a FabAcadmy graduate, Salzburg Global Fellow and Nippon Foundation Fellow.

Highlights

- With use cases validated by 3 state governments with >35% engagement, Samaaja is ready to be deployed to 4,00,000 users this academic year through these partners.
- 5 out of 15 non-profits from a breadth of sectors (ed, health, civic engagement, volunteering etc) will adopt Samaaja.
- Samaajdata, another usecase based on Samaaja, looking at hyperlocal data has about 2,00,000 crowd or partner sourced data points at different stages of validation and publishing.
- Next on the agenda involves integration with AI tools such as ChatGPT, translation, and transliteration, along with enhanced user analytics to assist adopters in pinpointing their focus areas and making informed decisions.

Target audience

Samaaja's target audience encompasses a diverse range of stakeholders, including young individuals, as well as organizations that act as intermediaries and actively involve citizens, citizen groups, and civil society organizations. This also extends to elected representatives and government departments. Samaaja's versatility extends to both initial interaction points (the "first mile") and concluding stages of engagement (the "final mile") with respondents, making it an adaptable solution for a broad spectrum of users.

Link to demos

<https://youtu.be/8dkMNozAIQ8>

Source code

<https://github.com/fossunited/Samaaja>