

Dayananda Sagar University

Devarakaggalahalli, Harohalli Kanakapura Road, Ramanagara, Karnataka 562112



**SCHOOL OF
ENGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)**



REPORT ON

AI Innovation Day Bhasha Bandhu Hackathon

Conducted by

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

25th February 2025

TIMINGS: 10.45AM to 4.30PM

Industry Experts & Mentors

- **Lingaraj Benni** – *Microsoft Certified Trainer, Principal Cloud Transformation Consultant at NTT DATA, Inc.*
- **Prathap Reddy Chenchappagari** (Joined Virtually) – *Microsoft [Azure] AI MVP, AI Engineer at Eviden*

Convener:

1. **Dr. Amit Bhatt**, Vice Chancellor, DSU
2. **Dr Puttamadappa C**, Professor & Registrar
3. **Dr. Udaya Kumar Reddy K R**, Professor & Dean SoE
4. **Dr. Ramesh R Galigekere**, Professor & Dean Academics
5. **Dr. Kousalya Govardhanan**, Professor & Dean R&D
6. **Dr. Jayavrinda Vrindavanam V**, Professor and Chairperson CSE(AIML)

Organising committee:

DR. VINUTHA N, Associate Professor, Department of CSE (AI & ML)
PROF. PRADEEP KUMAR K, Associate Professor, Department of CSE (AI & ML)
Mr. Mohammed Uvez Khan, Student, Department of CSE (AI & ML)
Mr. Arafat Farooqui, Student, Department of CSE (AI & ML)
Mr. Aman Ramzan Sheikh, Student, Department of CSE (AI & ML)

Report

The **AI Innovation DayBhasha Bandhu Hackathon** was a pioneering event organized in collaboration with **Bhashini** and **Microsoft**, hosted by the **Department of Computer Science Engineering Artificial Intelligence & Machine Learning (CSE AIML)**, **Dayananda Sagar University (DSU)**. The event aimed to bridge India's linguistic digital divide by leveraging AI-driven solutions.

Bhashini, an initiative by the **Ministry of Electronics and Information Technology (MeitY)** under the **National Language Translation Mission**, is dedicated to enhancing digital accessibility and fostering linguistic inclusivity across India. Launched in **August 2022** in **Gandhinagar, Gujarat**, Bhashini utilizes **Artificial Intelligence (AI)** and **Natural Language Processing (NLP)** to facilitate seamless translation across various Indian languages. The initiative is supported by the **Digital India Bhashini Division (DIBD)** under **Digital India Corporation (DIC)**, which enables collaborations with startups and developers through more than **300 pre-trained AI models** accessible via **Open Bhashini APIs**.

To further this vision, the **Bhasha Bandhu Hackathon** was introduced as a platform to **engage students, professionals, and entrepreneurs** in developing **innovative language solutions** using Bhashini's open-source AI models and Microsoft's cutting-edge technologies. The **Department of CSE AIML at DSU** played a crucial role in organizing this regional ideathon, ensuring participants had access to industry mentorship, hands-on experience with AI tools, and an opportunity to contribute to India's digital empowerment.



Figure 1: Poster



Figure 2: Poster with Resource Person 1



Figure 3: Poster with Resource Person 2

EVENT DETAILS

- **Date:** 25th February 2025
- **Venue:** LH2, Dayananda Sagar University
- **Participants:** 170+ students and professionals

Key Organizers

- **Convener:** Dr. Jayavrinda Vrindavanam V, Chairperson, Dept. of CSE AIML, DSU
- **Faculty Coordinators:**
 - Prof. Pradeep Kumar K, Assistant Professor, Dept. of CSE AIML
- **Student Coordinators:**
 - Mohammed Uvez Khan (ENG22AM0019)
 - Aman Ramzan Sheikh (ENG22AM0003)
 - Arafat Farooqui (ENG22AM0145)
 - Mathew Alex (ENG22AM0113)
 - Jithin Murthy B (ENG22AM002)

Industry Experts & Mentors

- **Lingaraj Benni** – *Microsoft Certified Trainer, Principal Cloud Transformation Consultant at NTT DATA, Inc.*
- **Prathap Reddy Chenchappagari** (Joined Virtually) – *Microsoft [Azure] AI MVP, AI Engineer at Eviden*

Problem Statements

Participants worked on real-world challenges aimed at improving legal awareness and accessibility in India. The four problem statements were:

1. **Software/App Enhancing Awareness of Mediation in Indian Communities and Institutions**
2. **Promoting Legal Literacy Across Communities**
3. **Empowering Citizens: Simplified Legal Application Filing through Regional Speech**
4. **Enhancing Awareness and Accessibility of Digital Legal Platforms in Rural and Underserved Areas**

EVENT FLOW

The **AI Innovation DayBhasha Bandhu Hackathon** at **Dayananda Sagar University** was a structured and engaging event that provided participants with hands-on experience in AI-driven solutions for legal accessibility.

1. Inauguration & Welcome Address

The event began with a welcome speech by **Dr. Jayavrinda Vrindavanam V, Chairperson of Dept. of CSE AIML**, followed by an introduction to the hackathon's objectives and problem statements.

2. Mentor Sessions & Knowledge Sharing

- **Lingaraj Benni** introduced the participants to the hackathon, explaining the **problem statements**, expectations, and judging criteria. He also shared insights into **Bhashini APIs**, **OpenAI integration**, and AI-powered multilingual solutions.
- **Prathap Reddy Chenchappagari**, joined virtually and shared valuable knowledge on AI-driven innovations and how participants could leverage **Microsoft Azure AI** for their solutions.

3. Hackathon Begins – Ideation & Development

Participants formed teams and worked on innovative solutions to address the provided problem statements. They engaged in brainstorming, designing, and preparing presentations.

4. Pitching & Submission

Each team submitted a **presentation (PPT)** explaining their idea, including the problem statement, solution, technology stack, and impact.

5. Evaluation & Results Announcement

The evaluation was conducted by **Lingaraj Benni**, based on predefined criteria. Due to time constraints, **on-site evaluations could not be completed**. Instead, teams were instructed to upload their submissions to a **Google Drive link** for remote evaluation. Results were not announced immediately; instead, they were scheduled to be released in the **upcoming days** after detailed assessment.

6. Felicitation of Guest

As a token of appreciation for his valuable time, insights, and mentorship, **Lingaraj Benni** was felicitated by **Prof. Pradeep Kumar K** and **Dr. Vinutha N**.

KEY HIGHLIGHTS

- **170+ participants** actively registered and participated, demonstrating strong interest and enthusiasm.
- Students **developed and presented innovative solutions** to address legal and linguistic challenges using AI and Bhashini APIs.
- The event provided a **collaborative environment**, encouraging teamwork and problem-solving skills among students.
- **Mentors provided valuable insights** into AI technologies, legal tech solutions, and industry best practices.
- **Lingaraj Benni** shared details about the hackathon and problem statements, helping participants gain a deeper understanding of the challenges.
- **Prathap Reddy Chenchappagari**, who joined virtually, shared his knowledge and expertise, adding value to the discussions.
- The event **helped participants gain hands-on experience with OpenAI and multilingual APIs**, expanding their technical knowledge.

- **Enthusiastic participation** from all teams reflected the students' eagerness to contribute meaningful solutions.
- The **mentor was highly impressed by the creativity and problem-solving abilities** of students from our college.
- **Evaluations could not be completed on-site**, so a Google Drive link was shared for teams to submit their work, and results will be announced in the coming days.
- **Participants suggested that more time should be allotted for direct idea presentations to mentors**, as not everyone had the opportunity to do so.
- The hackathon served as a **great networking opportunity**, allowing students to connect with industry experts and fellow innovators.
- The event **enhanced students' confidence in problem-solving and pitching ideas**, preparing them for future hackathons and tech challenges.

OUTCOMES & IMPACT

The **Bhasha Bandhu Hackathon**, organized by the **Department of AIML, Dayananda Sagar University**, in collaboration with **Bhashini and Microsoft**, had a significant impact on students, fostering innovation and technical expertise. With **170+ participants**, the event served as a platform for students to explore **AI, cloud computing, and multilingual technologies** while working on real-world legal and accessibility challenges. Participants developed solutions addressing critical problems, such as **legal literacy, digital legal accessibility, and mediation awareness**, demonstrating their ability to apply theoretical knowledge to practical scenarios. The hackathon provided **invaluable industry exposure**, as students had the opportunity to interact with **Microsoft-certified professionals** and mentors who shared insights into cutting-edge AI applications. **Lingaraju Benni**, an esteemed mentor, introduced participants to the **problem statements and key objectives** of the hackathon, while **Prathap Reddy Chenchappagari**, who joined virtually, provided additional knowledge and guidance. The **evaluation process, led by industry mentors, was conducted remotely via Google Drive** due to time constraints, and results were scheduled to be announced in the upcoming days. Students participated with great enthusiasm, and many teams proposed **impressive, innovative solutions** that caught the attention of mentors. The **Microsoft mentor was particularly impressed by the creativity and problem-solving abilities** demonstrated by DSU students. However, a common feedback point from participants was that **not all teams had the opportunity to present their ideas directly to the mentor**, which could be improved in future events. The hackathon significantly contributed to **enhancing students' problem-solving skills, fostering collaboration, and expanding their professional networks**. It encouraged many students to actively **engage in more hackathons and research-driven projects**, strengthening the innovation culture within the university. Furthermore, the **successful organization of this event reinforced DSU's position as a hub for technical excellence**, opening doors for **future collaborations with Microsoft and other industry leaders**.

MEDIA & DOCUMENTATION

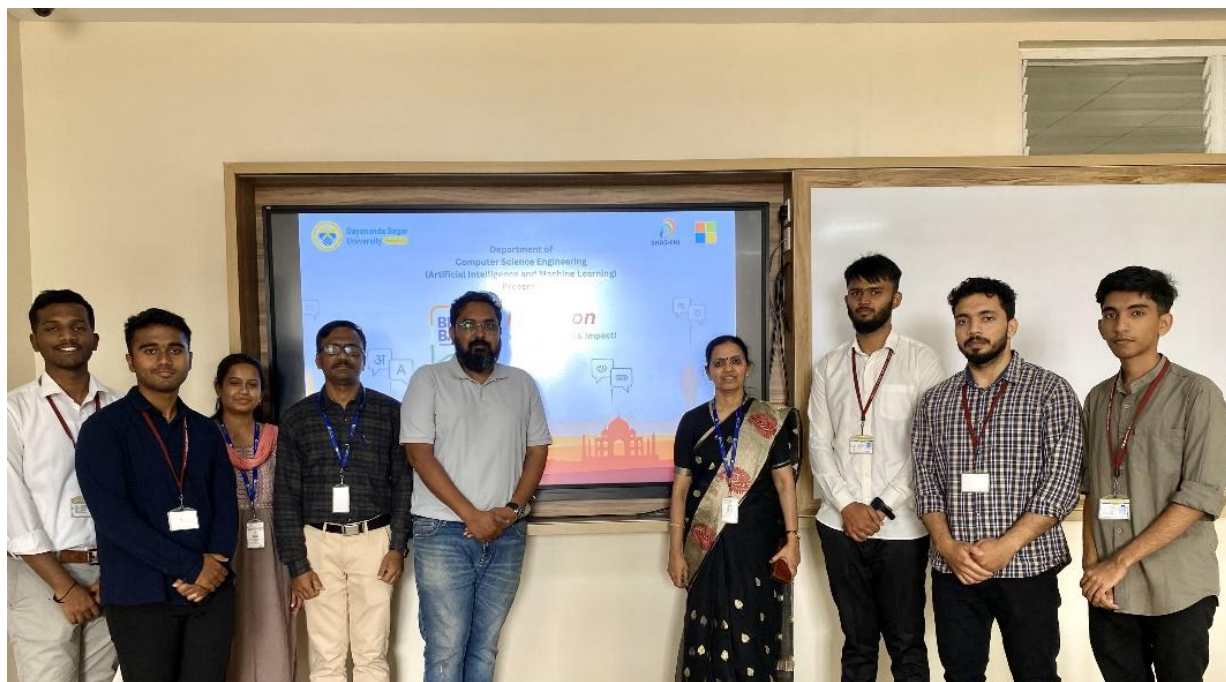
The **Bhasha Bandhu Hackathon** at **Dayananda Sagar University** was well-documented through various media formats, capturing the energy and enthusiasm of the participants. Event photographs, videos, and key highlights were recorded to preserve the moments and showcase the innovative ideas presented. A dedicated team of student coordinators ensured that every stage of the event—from registrations to brainstorming sessions—was properly documented.





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The **Bhasha Bandhu Hackathon**, organized by the **Department of AIML, Dayananda Sagar University**, in collaboration with **Microsoft and Bhashini**, was a resounding success, bringing together **170+ participants** eager to tackle real-world challenges using AI-driven solutions. The event fostered innovation, critical thinking, and problem-solving skills among students, encouraging them to leverage technology for societal impact.

The enthusiastic participation and impressive solutions showcased by students highlighted the growing potential of AI in addressing language barriers and enhancing digital accessibility. The mentors, including **Lingaraj Benni** and **Prathap Reddy Chenchappagari**, provided invaluable insights, inspiring participants to refine their ideas further.

Looking ahead, this event has laid a strong foundation for future hackathons and collaborations. There is potential for follow-up sessions, mentorship programs, and further refinement of selected ideas. Additionally, providing **more presentation opportunities** for participants and expanding the **regional outreach** of such hackathons will ensure a broader impact. **With continued support from Microsoft and Bhashini, future editions can further drive technological advancements and create AI-powered solutions for India's linguistic and legal accessibility.**

Winners will be announced in **Bhasha Bandhu App** and further round 2 will be conducted in Microsoft office in the month of March 2025. Selected teams will be competing for prize pool of 1 lakhs rupee for first prize & 50,000 rupee for second prize in each domain.

Prof. Pradeep Kumar K
Event Coordinator

Dr. Jayavrinda Vrindavanam
Professor & chairperson, CSE(AIML)