



**Finessefleet Foundation**

## **Annual Programme & Engagement Forecast**

October 10, 2025

## EXECUTIVE SUMMARY

The Finessefleet Foundation marks the completion of its first year of establishment on 10th October 2025. In this initial year, the Foundation has pursued its objectives of promoting education, research, and public service with structured, disciplined, and mission-aligned interventions. All operations have been independently supported through the Chairperson's personal fund, ensuring focus, autonomy, and adherence to institutional principles.

Key highlights of the Foundation's first-year initiatives include:

- **Faculty Development Programme on Predictive Analytics & Industrial Optimization:** 155 faculty members from higher education institutions across India participated and were certified, enhancing their capacity for research-led teaching and industrial analytics.
- **Symposium on Artificial Intelligence & Data Science:** 186 scholars and research students engaged in knowledge exchange, contributing 17 presentations; all participants received certificates of recognition.
- **MOOC on Introduction to Programming with Python:** 758 learners, primarily from higher education institutions, acquired foundational programming skills through this structured online course.

In addition to these engagements, the Foundation undertook technical and research-focused projects, including lightweight Kubernetes deployment (KubeMicroServe), cybersecurity intelligence aggregation (IPReconX), UAV detection in satellite imagery, multilingual AI translation and sentiment analysis (LinguaBridge), and literature review on machine learning-based spam detection. These initiatives reflect a blend of applied research, innovation, and practical learning.

Community and public service programmes, notably the Health Impact Programme and open-access K12 educational initiatives, reinforced the Foundation's commitment to translating knowledge into tangible societal benefits.

Looking ahead, the Foundation intends to scale academic and research interventions, expand community engagement, strengthen volunteer and short-term programs, and provide peer support to nonprofit organizations. These forward-looking initiatives aim to consolidate early achievements, foster institutional growth, and enhance measurable societal impact.

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Bengaluru, 10<sup>th</sup> October, 2025

### MESSAGE FROM THE CHAIRPERSON

I am pleased to present the Annual Programme & Engagement Forecast of the Finessefleet Foundation, marking the completion of its first year of institutional activity. This milestone reflects the dedication and commitment invested in establishing the Foundation as a credible institution for education, research, and public service.

Over the past year, the Foundation has pursued its founding objectives with diligence, undertaking initiatives in academic programmes, research engagements, public health interventions, and structured volunteer activities. Significant achievements include the conduct of Faculty Development Programmes, research symposia, online courses, and community engagement initiatives, all executed with careful planning and adherence to institutional standards.

I express my sincere gratitude to all individuals, organizations, academic institutions, volunteers, and well-wishers, both in India and abroad, whose guidance, support, and encouragement have contributed to the Foundation's progress. Their assistance has been instrumental in sustaining operations and ensuring that the Foundation's mission is pursued effectively.

As the Foundation moves into its second year, it will continue to expand its programmes, strengthen institutional capacity, and work towards delivering meaningful and sustainable impact in alignment with its vision of national service and societal development. This report aims to inform stakeholders of the progress made and to foster continued engagement and collaboration in pursuit of knowledge, research, and public service.

(Arpita Banerjee Adhikari)  
Chairperson & Executive Director  
Finessefleet Foundation

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## FOREWORD

It is with a sense of institutional pride and commitment to national development that the Finessefleet Foundation presents its inaugural Annual Programme & Engagement Forecast, marking the completion of its first year of operations. This embodies the Foundation's focus on advancing education, research, and public service through structured, evidence-driven, and mission-aligned initiatives.

During its formative year, the Foundation has demonstrated a disciplined approach to fostering technical expertise, nurturing research capacity, and promoting community engagement. Across academic programmes, research projects, online learning initiatives, and public health interventions, the Foundation has maintained rigorous adherence to operational protocols and governance standards. All activities have been pursued in a voluntary, non-commercial framework, reflecting the ethos of selfless service and institutional integrity.

The compilation of programmes, achievements, and forward-looking initiatives in this report reflects both the dedication of the Foundation's core team and the indispensable support of partner institutions, volunteers, and collaborators. The structured presentation of outcomes and metrics underscores the measurable impact of its work, while providing a roadmap for sustained growth and societal contribution in subsequent years.

As the Foundation embarks upon its second year, this report stands as a testament to the vision, resilience, and strategic clarity that underpin its institutional journey. It is intended to inform, guide, and inspire stakeholders, reflecting the Foundation's commitment to building a credible, disciplined, and impactful institution for the service of the nation and the advancement of knowledge.

Finessefleet Foundation

Bengaluru  
October 10, 2025

## INTRODUCTION

**O**n 10th October 2025, the Finessefleet Foundation completes its first year of establishment. While still in its early phase, the Foundation has remained steadfast in its commitment to its founding objectives — to serve the nation through the promotion of education, research, and public service. Over the past year, the Foundation has actively engaged in a spectrum of activities, encompassing teaching, knowledge dissemination, research initiatives, and structured voluntary engagement programmes.

Throughout this initial period, the Foundation received guidance and support from numerous well-wishers, experts and organisations in various fields. While the core supporter base remains limited in number, the dedication and contribution of these individuals have been instrumental in enabling the Foundation to navigate challenges and maintain operational continuity.

It is noteworthy that the Foundation's operations over the past year have been entirely supported by the Chairperson's Personal Fund, with no external financial contributions or donations accepted. This approach has allowed the Foundation to maintain independence, focus on its mission, and operate in strict adherence to its institutional principles.

Despite its nascent stage, the Foundation has laid the groundwork for future initiatives, including: structured online courses in computer science, public health research programmes, short-term engagements for young professionals, research assistantships, field volunteering opportunities, and peer-support initiatives for nonprofit compliance and governance. These efforts reflect a disciplined, structured, and mission-aligned approach akin to the functioning of government institutions and autonomous academic bodies.

As the Foundation completes its first year, it does so with a sense of purpose, resilience, and institutional maturity. The experiences, lessons, and milestones of this year provide a solid foundation for expansion and deeper societal engagement in the years to come. The Finessefleet Foundation remains committed to its vision of national service, capacity-building, and knowledge empowerment, moving forward with renewed energy and unwavering dedication.

# GOVERNANCE AND INSTITUTIONAL STRUCTURE

## Composition of the Board of Directors of the Foundation

The **Board of Directors** constitutes the highest decision-making body of the Finessefleet Foundation and provides strategic guidance and institutional oversight. The Board functions in accordance with the statutes of the Foundation and ensures that all activities are aligned with its objectives of public service, research, and education.

As of 10th October 2025, the Board is composed as follows:

Sl. No.	Name	Designation	Tenure
1	Arpita Banerjee Adhikari	Chairperson & Executive Director to the Board	10.10.2024 – Incumbent
2	Rudranath Roy	Non-Executive Director to the Board	Two (2) years from the date of appointment or until further orders

The Board operates as a collective authority, with decisions taken in accordance with formal procedures and documented through Board Resolutions. The composition reflects a balance between executive oversight and non-executive advisory input.

## Secretariat of the Board of Directors, Finessefleet Foundation

The Secretariat of the Board of Directors, Finessefleet Foundation (Board Secretariat) serves as the principal administrative support unit for the Board. It is tasked with the management of Board communications, scheduling of meetings, preparation and maintenance of minutes, and record-keeping of statutory documents.

At present, the Administrative Secretariat of the Foundation undertakes these responsibilities in an additional capacity to ensure continuity. This arrangement ensures that all Board-related operations, communications, and procedural formalities are conducted efficiently, with due compliance to governance standards.

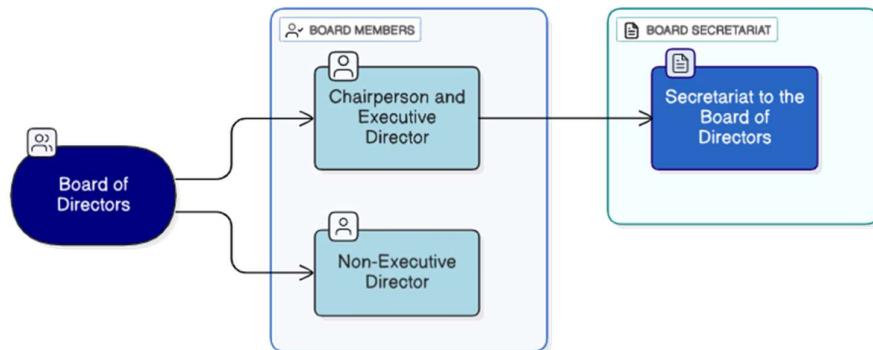


Figure 1 : Composition of the Board of Directors, Finessefleet Foundation

## PROGRAMMES AND INITIATIVES

In this formative year, the Foundation has strategically engaged across academic, research, public service, and community domains, laying a strong institutional foundation. All activities have been conducted with rigorous adherence to structured governance, operational protocols, and oversight, with daily execution held at the Administrative Secretariat. All activities done has been purely non-commercial in nature, and voluntary driven. The following sections provide a comprehensive account of programmes executed during the inaugural year and forecasted initiatives for the forthcoming operational period.

### Academic and Research Programmes

The Foundation prioritized the development of technical expertise and academic rigour in its first year. Initiatives focused on skill development, knowledge dissemination, and early-stage research exposure. Notable accomplishments include:

Sl. No.	Activity	Year	Description	Significance
1	Completion of 2 (two) SDE STEs	2024	Two STEs providing hands-on exposure to software development	Early career skill-building and practical application of theoretical knowledge
2	Invited Talk: Introduction to Internet of Things	2024	Delivered by expert faculty to students and researchers	Foundation for IoT knowledge dissemination and awareness
3	Invited Talk: Introduction to VLSI	2024	Introductory seminar on VLSI concepts	Established technical orientation for participants
4	Invited Talk: Advances in VLSI	2024	Advanced seminar on contemporary VLSI trends	Exposure to cutting-edge research and practical design considerations
5	Faculty Development Programme (FDP) on Predictive Analytics & Industrial Optimization	2025	Collaboration with Sanjivani University; February, 2025	Strengthened faculty capacity and promoted research-led teaching
6	Symposium on AI & Data Science	2025	Jointly organized with Sanjivani University; March 2025	Facilitated knowledge exchange and networking among AI researchers and practitioners
7	Formation of Department of Electrical Engineering and Computer Sciences (EECS)	2025	Institutional structuring to coordinate research and academic projects	Created a dedicated platform for research and teaching excellence
8	Completion of 7 Research STEs under EECS	2025	Engaged students and young researchers in project-based learning	Enhanced technical capacity and research contribution

9	MOOC on Introduction to Programming with Python	2025	Online course development and delivery	Expanded accessible learning opportunities for a wider audience
10	Motivational Talk: "Unlocking Your Potential: The Superpower Within"	2025	Personal development session for students	Emphasized soft skills, motivation, and holistic development

These initiatives collectively contributed to the development of human capital, strengthened academic networks, and established the Foundation as a credible institution for knowledge dissemination and research engagement.

## Public Health and Community Engagement Programmes

The Foundation also prioritized community-oriented programmes, focusing on public health interventions and grassroots engagement:

Sl. No.	Initiative	Year	Description	Anticipated Impact
1	MOU Signing with Paalann, Madhya Pradesh	2025	Formal collaboration to support public health awareness and research	Creation of evidence-based community health interventions
2	Establishment of Finessefleet-Paalann Health Impact Programme	2025	Structured programme focusing on maternal-child health, awareness campaigns, field research and interdisciplinary area of innovation	Direct engagement with communities, improved public health awareness, and data collection for research
3	Vidyasagar Learning Initiative	2025	Continuation of K12 educational programmes	Video-lectures were made open-access for all

## Institutional Development and Operational Structuring

Significant effort was dedicated to building institutional capacity, including:

- Formation of the EECS Department, centralizing technical research and internship management.
- Strengthening the Administrative Secretariat to manage daily operations, coordinate Board communications, maintain official records, and ensure procedural compliance.
- Establishing frameworks for academic collaborations, MOUs, and formal agreements with partner institutions.

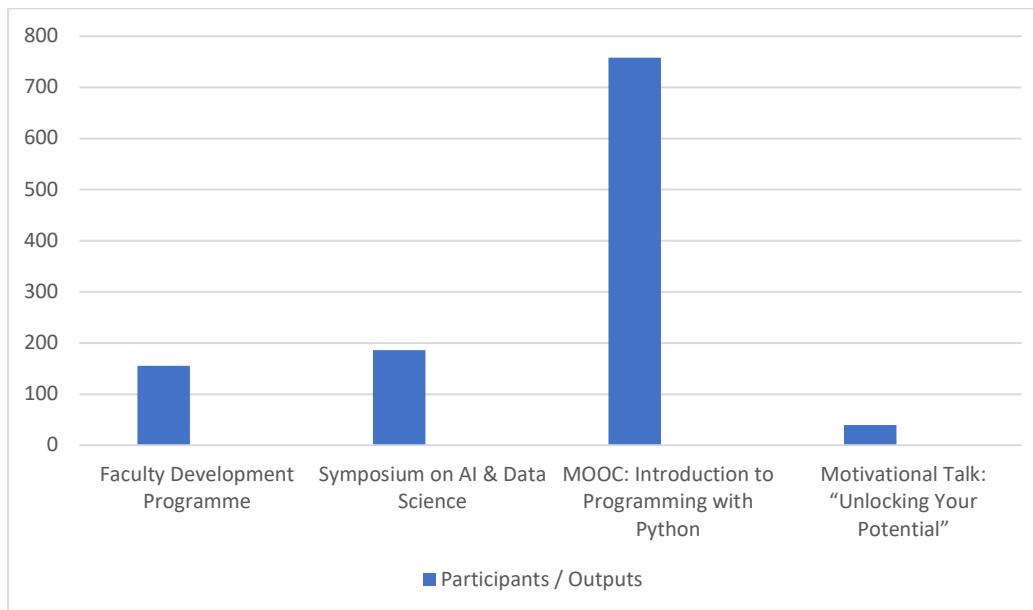
These measures have laid the groundwork for scalable, sustainable institutional operations, ensuring readiness for subsequent years of programme expansion.

## KEY METRICS AND OUTCOMES

### Academic Engagements

The Foundation undertook multiple initiatives to enhance academic capacity and professional development:

- **Faculty Development Programme on Predictive Analytics & Industrial Optimization:** The programme engaged **155 faculty members** from higher education institutions across India. Participants successfully completed the training and were awarded certificates, reinforcing faculty competence in advanced analytics and industrial optimization practices.
- **Symposium on Artificial Intelligence & Data Science:** The symposium brought together **186 participants**, including B.E./B.Tech, B.S., M.E./M.Tech, M.S., PhD scholars, and research students. During the event, **17 presentations** were delivered covering various areas. Certificates of participation were issued to all attendees, acknowledging their contribution and engagement in knowledge dissemination.
- **MOOC on Introduction to Programming with Python:** This online course enrolled **758 learners**, primarily from higher education institutions, with additional participation from other learners interested in foundational programming skills. The course aimed to strengthen computational skills and provide accessible learning opportunities.
- **Motivational Talk: "Unlocking Your Potential: The Superpower Within":** A focused session on personal development attended by **40 participants**, emphasizing soft skills, motivation, and holistic growth.



## Technical and Research Initiatives

Over the past year, the Foundation has facilitated several technical and research-focused projects. These initiatives highlight applied research, software development, and AI-enabled innovation:

- **KubeMicroServe: Lightweight Kubernetes Cluster for Low-Powered Devices**  
(<https://github.com/finessefleet/KubeMicroServe>)

KubeMicroServe is a lightweight Go-based web server application developed for deployment on lightweight Kubernetes environments such as K3d and K3s. The project demonstrates a full local development workflow integrating Docker containerization, automated Kubernetes deployment, and operational streamlining via Make-based scripts. Additionally, a pre-configured Grafana dashboard provides observability and performance visualization, exemplifying minimal yet comprehensive cloud-native application deployment.

- **IPReconX: Interactive Feed Aggregator for Malicious IP Tracking**  
(<https://github.com/finessefleet/ipreconx>)

IPReconX is a web-based cybersecurity application built with Vue.js for visualizing and analyzing blacklisted IP addresses. Integrating external threat intelligence sources such as VirusTotal, the tool enables real-time assessment of IP reputation, associated domains, and threat categorization. Its modular architecture facilitates efficient data handling and decision-making for cybersecurity professionals.

- **Detection of Unmanned Aerial Vehicles (UAVs) in Satellite Imagery**

This research project focused on identifying UAVs within satellite imagery using remote sensing techniques. The study explored methods for small object detection, dataset curation, and feature extraction, laying the technical foundations for automated UAV identification. Despite limited domain-specific datasets, the work emphasized methodological rigor and analytical insights.

- **LinguaBridge: AI-Powered Multilingual Translation and Sentiment Analysis**  
(<https://github.com/finessefleet/linguabridge>)

LinguaBridge addresses India's linguistic diversity by providing real-time multilingual translation and sentiment analysis across 22 Indian languages. Leveraging NLP technologies such as Google Translate, TextBlob, and Llama, the framework enables accurate translation, emotion detection, and user-feedback optimization. It has broad applications in education, healthcare, governance, and social media, enhancing accessibility of digital services.

- **Spam Detection in Machine Learning**

A literature-based review project focused on existing methods for automated spam detection. The white paper synthesized approaches, challenges, and potential future directions for identifying spam communications, offering insights for research and practical application in automated filtering systems.

## FORECASTED PROGRAMMES AND INITIATIVES

The Foundation now moves into its second operational year with a clear strategic orientation towards scaling ongoing initiatives, broadening institutional engagement, and deepening societal impact. The emphasis for the forthcoming period will be on structured academic interventions, expansion of community-level programmes, targeted short-term engagements, and collaborative capacity-building efforts across the nonprofit ecosystem. All activities will be aligned with the Foundation's founding objectives of advancing education, research, and public service in an institutional and structured manner.

### Academic and Research Programmes

The academic and research agenda for the forthcoming year has been structured to strengthen technical capacity and expand the Foundation's footprint in the domains of engineering sciences, computing, and applied research. The Foundation plans to offer new Massive Open Online Courses (MOOCs), including "*Introduction to Large Language Models*" and "*Mathematical Foundations of Computer Science*." These courses shall be developed through rigorous academic vetting processes and shall be targeted primarily at undergraduate and postgraduate learners, as well as early-stage researchers seeking to build a strong computational foundation.

In parallel, the Foundation shall pursue research initiatives in engineering and artificial intelligence, focusing on interdisciplinary applications and outcomes of practical significance. These initiatives are expected to contribute to academic publications, collaborative research outputs, and technology-driven societal interventions. The Department of Electrical Engineering and Computer Sciences (EECS), established in the first year of operations, will undergo further expansion during this period. This includes the integration of additional research streams, advanced technical projects, and a broader network of research engagements. Collectively, these programmes aim to create a structured and sustainable academic ecosystem that not only strengthens capacity but also nurtures talent across disciplines.

### Public Service and Community Engagement Programmes

The Foundation remains committed to ensuring that institutional knowledge translates into tangible benefits for society. In the forthcoming period, the Health Impact Programme shall be expanded to reach wider communities, focusing on maternal and child health, public health awareness, and community-level interventions. These activities shall emphasize health literacy, data collection, and evidence-based programme design, thereby contributing to improved community health outcomes.

## Short-Term Engagement Programmes (STE)

To further institutional objectives and engage a broader pool of talent, the Foundation will offer multiple **Short-Term Engagement Programmes (STEs)** in the forthcoming year. These may include **Research Assistantships** for students and early-stage researchers to contribute directly to ongoing technical and academic projects, as well as **Young Professionals Programmes** aimed at exposing early-career professionals to interdisciplinary work across academic, technical, and health domains.

The **Field Volunteer Programme** shall also be introduced and should enable volunteers to participate in community-level initiatives, data collection activities, and programme implementation. It is envisioned that Field Volunteer Programme shall be strengthening the Health Mission the Foundation envisioned. In addition, **Teaching Assistantships** shall provide structured opportunities for students and volunteers to support MOOCs and academic content delivery. Further, **Medical Research STEs** will allow participants to engage in health-related research studies and field interventions. Together, these engagements will create meaningful avenues for experiential learning, professional development, and institutional contribution.

## Peer Nonprofit Support Initiatives

In furtherance of its broader institutional vision, the Foundation shall undertake initiatives to support peer nonprofit organizations and contribute to sectoral strengthening. A key step in this direction shall be the establishment of an online forum, to be maintained by the Foundation as a structured digital platform.

This forum will serve as a common information and resource-sharing space, where peer nonprofits can access relevant updates, guidance notes, and practical advisories relating to governance and statutory compliance. The Foundation intends to make available annual compliance calendars, governance advisories, procedural checklists, and reference materials through this platform.

The objective of this initiative is to assist peer organizations in navigating regulatory requirements more effectively, ensuring procedural adherence, and enhancing their institutional resilience. Over time, the forum will also evolve as a space for sectoral exchange and collective strengthening, thereby supporting the nonprofit ecosystem as a whole.

The 2025–26 programmes reflect a structured expansion of the Foundation's agenda, with scaled academic and research activities, strengthened community engagement, broadened volunteer and talent development, and reinforced peer institutional support,

consolidating early achievements and establishing a strong foundation for long-term, credible, and impact-driven operations.

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For any feedback, queries, or suggestions, please feel free to reach out to us at: [secretariat@finessefleet.com](mailto:secretariat@finessefleet.com). We welcome any constructive feedback and insights to help us strengthen our initiatives and engagement.

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