Students' Placement Office, IIT Kanpur
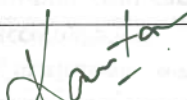
Project Verification Form

Title of the Project	Product Development Internship
Commencement Date	5th May
Completion Date	31st July
Project Supervisor	Priyaranjan Tiwari
Organization/Institution where the Project was accomplished	Medantrik

Project Description (You can use extra A4 sheets in case you run out of space however the extra sheets should also have the seal & signature of the Project Supervisor or the relevant authority)

- Develop algorithm for **portable lung health device**, cost-effective spirometry test and lung exercises(**₹6K vs.₹2K/hospital test**)
- Engineered cost-effective **portable lung diagnosis device**, driving technical solutions with **CTO** for successful market launch

- Calibrated device to map RPM to breath flow rate using prototype at **National Wind Tunnel IITK**, informed **5+ research papers**
- Built a hospital prototype and interface, collecting **10+ datapoints** from **200+ patients**, boosting algorithm **accuracy by 12%**
- Integrated hospital data (**SQL Server**) with GLI metrics, applying **RandomForest** to predict ideal lung health parameters
- Spearheaded **end-to-end design** of health camps with **1K+ footfall** and **represented team** in **ASEAN-India ScaleHub 2024, Bali**
- Oversaw marketing and design for health camps with **1K+ footfall** and **represented team** for **ASEAN-India ScaleHub 2024, Bali**

- Co-invented patent-pending device; projected sales of **₹30cr revenue (50K units)** by Apr, launch expected in **Sept** (Delhi-NCR)
- Generated lung report (**19 parameters+4 graphs**) via proprietary algo, classifying lung health into **4 categories (96% accuracy)**
- Cost-effective lung diagnosis device priced at **₹6K**, enabling **unlimited tests** compared to **₹1.5K per spirometry test** in hospital

By appending your signatures to this form you acknowledge and agree that:

- This form along with the certificate would serve as the official document between the project supervisor and Students Placement Office, IIT Kanpur regarding verification of the student's project work
- The student will provide additional information and documentation relevant to his/her project upon request by the Students' Placement Office
- The student has clearly defined his/her individual role in projects done in cooperation with other students, faculty, groups or company personnel.
- Incorrectly over-stating the reach, impact and/or quantitative/qualitative results of a project is unethical.
- In case of violation of any of the above rules, Students' Placement Office, IIT Kanpur reserves the right to take necessary action including de-registering the student from the placement season and reporting the misconduct to the Institute Authorities.

Submitted by:-	Project Supervisor Details:-
Name: Kaustav Dasgupta	Name: Priyaranjan Tiwari
Roll No: 210501	Designation: Co-founder, Medantrik
Signature:	Signature: