

Business Name

बिज़नेस नाम / व्यवसाय का नाम

ব্যবসার নাম- * Darukaa.Earth

City

शहर / শহর- Mumbai

Name

नाम / নাম- * Vikram Singh

Email

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Contact No.

সম্পর্কনম্বর / যোগাযোগ নম্বর-

Qualification

योग्यता / एजुकेशनल क्वालिफिकेशन / শিক্ষাগত যোগ্যতা- MBA

Gender

लिंग / লিঙ্গ- Male

Designation

देसिगनेशन / औहदा / पद / पद- CEO & Co-founder

Website

वेबसाइट- <https://www.darukaa.earth/>

Sector

आपके प्रयास का क्षेत्र क्या है / আপনার উদ্যোগের ক্ষেত্র কী? - Technology and Development

Stage

व्यवसाय किस स्थिति में है व्य वसाय का चरण / আপনার ব্যবসা কোন পর্যায়ে রয়েছে -

Early Revenue

Business Structure

आपके व्यवसाय का संरचना क्या है/ আপনার ব্যবসার কাঠামো কী? -

Private Limited

Detailed Information

Market Need / বাজারের চাহিদা : (आप किस बाजार की आवश्यकता को हल कर रहे हैं? / (আপনি কোন বাজারের চাহিদা মেটাচ্ছেন? (আপনার উদ্যোগ কোন সমস্যা বা প্রয়োজন সমাধান করছে এবং সমস্যাটির ব্যাপকতা কতটুকু) - *

Biodiversity and carbon markets lack scalable, real-time MRV (Monitoring, Reporting, Verification) systems, especially in developing regions.

A \$700B annual biodiversity funding gap and invalidation of 30% of carbon credits due to poor verification highlight the scale of the problem.

Lack of transparency, poor data, and exclusion of local communities make nature finance slow, costly, and inaccessible.

Solution /সমাধান (সমাধান ক্যা হৈ ঐর আপ সমস্যা / আবশ্যকতা কা সমাধান কৈসে কর রে হৈঁ? / আপনার সমাধান কী ঐবং আপনি কীভাবে সমস্যা বা প্রয়োজন মেটাচ্ছেন? - *

- Darukaa.Earth provides an AI-powered dMRV platform that integrates satellite data, bioacoustics, and on-ground inputs for real-time biodiversity & environmental monitoring.
- It enables measurable carbon and biodiversity credits while directly involving communities in the data collection and benefit-sharing process.
- Our platform ensures traceable, credible, and cost-effective MRV across project lifecycles — from feasibility to credit issuance.

Target Customer / লক্ষ্য গ্রাহক : (আপকে গ্রাহক কৌন হৈঁ ঐর বে আপকা সমাধান ক্যৌঁ উপযোগ করৈঁগে? [লক্ষ্য বাজার (Target Market), গ্রাহক or উপভোক্তা (User)/ • আপনার গ্রাহক কারা ঐবং তারা আপনার সমাধান কেন গ্রহণ করবেন? (লক্ষ্য বাজার / গ্রাহক বা ভোক্তা)- *

Our target customers:

Project Developers & Landowners:

Need an **efficient, low-cost solution** to measure biodiversity & carbon impact, ensuring higher credit prices and project financing.

Investors & Corporations:

Struggle with **transparency & compliance** in biodiversity finance. Darukaa.Earth provides **AI-backed, verifiable carbon and biodiversity credits**.

Governments & NGOs:

Need **scalable, real-time data** to track conservation impact, align with policy frameworks like the **Kunming-Montreal Agreement**, and drive **large-scale reforestation & ecosystem restoration efforts**.

Local & Indigenous Communities:

Currently **excluded from carbon markets** due to **high costs and complex verification**. Our **mobile-friendly monitoring tools** enable communities to track biodiversity & earn revenue from biodiversity credits.

Revenue Model / রাজস্ব মডেল : (ব্রবীন্স মৌঁডল / আয়-সৃজন মৌঁডল(ব্যাপার কৈসে রেবীন্স/রাজস্ব কমাঐগা ঐর আপ কিতনে রাজস্ব কী উম্মীদ কর রে হৈঁ?) / • ব্যবসা কীভাবে রাজস্ব / আয় তৈরি করবে ঐবং আপনি কতটুকু আয়ের প্রত্যাশা করছেন?-

1. SaaS Platform:

- Cloud-based analytics platform for species identification and health diagnostics, carbon analysis & environmental reporting

2. Revenue Sharing: For projects we co-develop, we share a % of the credits issued.

3. Consulting Services:

- Custom setup for large-scale biodiversity monitoring projects.
- Pollinator health assessments for farms and production sites.

4. Data Licensing:

- Licensing biodiversity data for research and environmental impact assessments.

How is your solution different from others / आपका समाधान अन्यो से कैसे अलग है? / আপনার সমাধান
কীভাবে অন্যদের থেকে আলাদা? - *

Darukaa.Earth leverages AI-driven MRV to track biodiversity & carbon in real time, enabling high-integrity nature credits & financial incentives for conservation.

Biodiversity Monitoring & AI-Driven Insights

- ♦ **AI-Powered Species Identification** – We train **custom regional foundational models** using **site-specific bioacoustics data**, addressing **dataset gaps in South & Southeast Asia** while enhancing **keystone species tracking**.
- ♦ **Multimodal Data Fusion & Acoustic Indices** – AI integrates **satellite, drone, sensor, and bioacoustic data**, contextualizing **acoustic indices (e.g., NDSI, ACI)** with **ground data** for better ecosystem insights.
- ♦ **Global Partnerships** – Collaborating with **Cornell Lab of Ornithology, IISER Tirupati, and others**, we refine AI models for biodiversity monitoring.

Carbon & Climate Risk Modeling

- ♦ **AI-Driven Carbon Modeling** – Deep-learning **biomass calibration models** estimate **carbon sequestration**, aligning with **global credit standards**.
- ♦ **Predictive Climate Risk** – ML forecasting analyzes **CMIP6, NOAA, and regional data**, predicting **extreme weather risks** for resilience planning.
- ♦ **Scalability & Finance** – AI-backed **real-time MRV** lowers costs, enhances **trust in nature-based credits**, and ensures **transparent conservation finance**.

Social Impact / सामाजिक प्रभाव : आपके उत्पाद या सेवा का सामाजिक प्रभाव क्या है? सकारात्मक सामाजिक परिणाम / सामाजिक प्रभावों की समीक्षा / सामाजिक प्रभाव आकलन/ আপনার গণ্য বা পরিসেবার সামাজিক প্রভাব কী? (ইতিবাচক সামাজিক ফলাফল / সামাজিক প্রভাব মূল্যায়ন)- *

We have launched **INDIA'S FIRST BIODIVERSITY CREDIT PROJECT** in **Indian Sundarbans- one of the world's largest mangrove forests** where we:

Empowered 300+ local individuals (including forest dwellers and women) as data stewards — creating green jobs.

Democratizing climate finance by ensuring rural communities benefit directly from credit revenue.

Projects aligned with Sustainable Development Goals: climate action, life on land, reduced inequalities.

Current Status / বর্তমান অবস্থা : प्रयास की वर्तमान स्थिति क्या है? प्रयास / व्यवसाय की वर्तमान स्थिति? वर्तमान स्थिति / ट्रैक्शन (आपने अब तक कौन-कौन सी उपलब्धियां प्राप्त की हैं, जैसे राजस्व/ रेवीन्यू, माइलस्टोन , और जुटाए गए अनुसंधान राशि)? / • আপনার উদ্যোগের বর্তমান অবস্থা কী? (আপনার অর্জিত মাইলস্টোন, রাজস্ব বা তহবিল সংগ্রহের বিবরণ)-

Darukaa.Earth has achieved significant traction, including:

- Secured LOIs for SaaS worth ~\$100K/year.
- Filed 1 patent, with 3 more close to filing.
- Established multiple global MOUs with Samudra Ocean, Terra
- Piloted a 500-hectare conservation project in the Indian Sundarbans, a RAMSAR-recognized site.
- Got selected for renowned global accelerators programs:- AirMiners, Brainforest Venture Program, Airminers & Google AI program for startups.
- 1000+ hours of bioacoustic data processed
- Empowered 300+ locals with sustainable livelihoods.
- Research collaborations with leading institutional bodies.

Differentiation / ভিন্নতা এবং প্রযুক্তিগত সুবিধা : (What is the unique selling proposition of the business?) and Does your business have a Technology Advantage (Elaborate on how your technology plays a role in making the solution better for the customers?) (व्यापार का अद्वितीय बिक्री प्रस्ताव क्या है?) और क्या आपके व्यापार में तकनीकी अवांछन है? (यह स्पष्ट करें कि आपकी तकनीक ग्राहकों के लिए समाधान को बेहतर बनाने में कैसे भूमिका निभाती है?) / আপনার ব্যবসার ইউনিক সেলিং প্রপোজিশন (USP) কী? আপনার ব্যবসার কোনো প্রযুক্তিগত সুবিধা আছে কি? (আপনার প্রযুক্তি কীভাবে সমাধানকে গ্রাহকদের জন্য আরও উন্নত করেছে?)-

Darukaa.Earth's Unique Selling Point (USP) is its all-encompassing platform that **serves as a one-stop solution for carbon management + biodiversity monitoring and environmental risk assessment**. By seamlessly integrating advanced technologies with community-driven initiatives, we offer a comprehensive approach to environmental conservation and sustainability.

This multi-dimensional approach addresses growing market demand for **high-integrity nature-based solutions** that go beyond carbon accounting to demonstrate **measurable ecosystem resilience** and **social co-benefits**.

Technology Advantage:

Our **AI-driven digital MRV (dMRV)** , ensures **real-world scalability and accuracy**. Our **multimodal AI approach** tackles the **lack of real-time, high-accuracy biodiversity and carbon monitoring** by integrating **bioacoustics, satellite, drone, and IoT data** into a **unified, actionable system**.

By combining environmental science, community-centered technology, and high-frequency data fusion, we deliver **future-proofed MRV solutions** that are ready for **the next generation of nature and carbon markets**.

Customers Benefit from the technology:

✓ **Project Developers** – Benefit from **AI-driven feasibility assessments, precision project design, and automated monitoring**, ensuring measurable carbon and biodiversity impact.

✅ **Investors** – Gain access to **verifiable, high-quality carbon and biodiversity credits** with AI-powered tracking, ensuring **transparency, reduced financial risk, and long-term sustainability**.

✅ **Corporates** – Companies with **net-zero targets, ESG goals, and supply chain sustainability mandates** can **track emissions, monitor biodiversity impact, and ensure regulatory compliance** using AI-powered analytics, enhancing transparency and corporate responsibility.

Our **AI-driven solution bridges data gaps, enhances transparency, and ensures scalable, measurable climate action** for all stakeholders.