

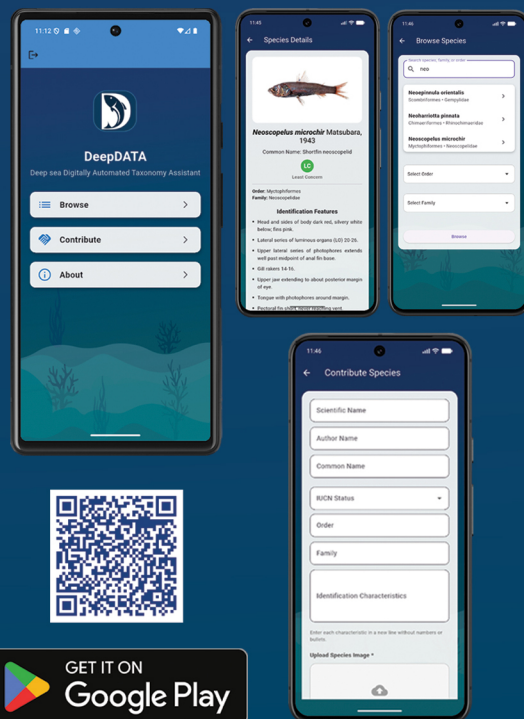
# DeepDATA

## Deep sea Digitally Automated Taxonomy Assistant

"Bringing the deep ocean to your fingertips - one species at a time."

### About DeepDATA

DeepDATA is a mobile platform that allows users to browse verified deep sea species records, explore taxonomy details, and contribute new entries, all through a secure, easy to use interface. Developed under **DOM VERTICAL-III: Automated Identification of Marine Species with Artificial Neural Networks to Enhance the Exploration and Sustainable Utilisation of Deep Sea Marine Fishes, funded by the Ministry of Earth Sciences (MoES)**. This application serves as a growing digital repository for deep sea fish species of the Indian EEZ. Every submission goes through an admin verification process before being published, keeping the database accurate and scientifically credible.



### Key Features

**Species Browse & Search:** Explore a curated library of deep sea fish species with a clean, easy to navigate interface. Search by name, family, or order and access organised, verified species records in seconds.

**Comprehensive Species Profiles:** Each species profile brings together essential information like scientific and common names, IUCN conservation status, taxonomic classification, key identification features, and a high quality reference image in one well organised view.

**User Contribution System:** Users can contribute new species records by submitting an image along with relevant scientific details. Contributions go through a verification process before being added to the database, ensuring every entry meets scientific standards.

**Admin Verification Workflow:** A dedicated admin panel allows authorised personnel to review and approve submitted species entries. This structured review process maintains the credibility and consistency of the entire database.

### Why DeepDATA?

DeepDATA goes beyond a simple species catalogue. It creates a living database that supports deep sea biodiversity conservation, formal scientific documentation, education, and long-term ecosystem monitoring. By combining citizen contributions with expert verification, it bridges the gap between field observation and credible research records and lays the groundwork for AI-driven species identification in Indian marine waters.

### Project Team:

Dr. Rekha J. Nair, Dr. J. Jayasankar, Dr. Eldho Varghese, Dr. Surya S., Dr. Rajni Jain, Dr. K. M. Rajesh, Mr. Thejus T. V., Ms. Keerthana P. S., Mr. Nahil Alikutty, Ms. Stephy Terry, Ms. Pooja M. Uthrad & Ms. Anzeena Azeez

### For More Information Contact:

Email: [akmucmfri@gmail.com](mailto:akmucmfri@gmail.com)

Dr. Grinson George  
Director  
ICAR-CMFRI  
Ernakulam North P.O.,  
Kochi-682 018

Dr. Eldho Varghese  
ICAR-National Fellow & SIC  
Agricultural Knowledge Management Unit  
(AKMU), ICAR-CMFRI, Kochi

Dr. Rekha J. Nair  
Principal Scientist & Project  
Leader  
ICAR-CMFRI, Kochi

Ms. Anzeena Azeez  
Young Professional-I  
ICAR-CMFRI, Kochi

**ICAR-Central Marine Fisheries Research Institute, Kochi**

CMFRI Pamphlet Series No.182/2026