

# Roshin Syahdan

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<https://radian-t-nova.github.io/Roshin-Syahdan/>

## Summary

Marine scientist with experience in species distribution modeling, GIS analysis, marine conservation and sharks' ecology. Skilled in translating scientific priorities into actionable conservation programs and partnerships. Experienced in research coordination, environmental education, and interdisciplinary collaboration. I'm always passionate about marine science, policy, and ecology.

## Skills

Conservation Science and Marine Resource Management, Environmental Data Analysis and GIS, Ecological Modelling, Policy and Stakeholder Engagement, HTML/CSS/JavaScript, Python, Scientific Communication and Reporting, Research Coordination, Cross-functional Collaboration, Program Support and Monitoring, Data Collection and Validation

## Experience

### Educator Team / Local Champion, Indonesia Plastic Free Movement

- Served as an Educator Team member and Local Champion in a plastic-free market initiative focused on reducing anthropogenic plastic pollution
- Engaged market vendors and local authorities to support policy-aligned environmental initiatives
- Collaborated with interdisciplinary teams to translate environmental science into practical outreach strategies

### Field Data Enumerator, WELI (Women's Environmental Leadership Indonesia)

- Supported monitoring and evaluation activities through socio-environmental data collection and validation
- Ensured data quality, consistency, and completeness for program evaluation and reporting
- Contributed to datasets used for assessing environmental and livelihood project outcomes

### Head of Administrative & Operations, Boarding School of Al Irsyad Tengaran 8 Martapura

- Coordinated administrative systems and daily operational workflows within a multi-unit educational institution
- Managed data records, reporting processes, and inter-departmental coordination to support organizational decision-making
- Worked closely with leadership and staff in a structured, project-oriented environment

## Projects

### Shark Distribution Modelling and Bycatch Risk Mapping

Indonesia Demersal Association · MaxEnt, RStudio, QGIS

- Developed machine learning-based species distribution models and spatial bycatch risk maps using environmental and fishing effort datasets
- Integrated environmental, oceanographic, and in-situ observation data to predict suitable habitats and identify high-risk bycatch areas
- Conducted model validation, cross-validation, and sensitivity analysis to ensure robust and reliable conservation predictions

### Shark Conservation and Bycatch Mitigation Strategies

Indonesia Demersal Association · RStudio and QGIS

- Analyzed spatial overlap between shark distribution and fishing activities to assess conservation risks.
- Developed targeted bycatch mitigation strategies, including spatial-temporal management and gear modification approaches
- Provided actionable recommendations to support sustainable fisheries management and shark conservation planning

## Education

IPB University – M.Si in Coastal and Marine Resources Management

2026

Lambung Mangkurat University – S.Pi in Catch Fisheries

2022