**Supplementary Information S3: ROCs for the four focal species**

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**Figure S2:** Chinkara ROCs for different algorithms.

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**Figure S3:** Four-horned antelope ROCs

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**Figure S4:** Nilgai ROCs

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**Figure S5:** Blackbuck ROCs are models with AUC values above 0.7

**Table S2:** AUC values for different alogorithms

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|  | **Blackbuck** | | **Chinkara** | | **FHA** | | **Nilgai** | |
|  | **Training** | **Test** | **Training** | **Test** | **Training** | **Test** | **Training** | **Test** |
| **GLM** | – | – | 0.796 | 0.782 | 0.862 | 0.822 | 0.804 | 0.797 |
| **GAM** | 0.867 | 0.716 | 0.833 | 0.794 | 0.908 | 0.837 | 0.828 | 0.811 |
| **BRT** | – | – | 0.782 | 0.763 | 0.84 | 0.794 | 0.792 | 0.782 |
| **RF** | – | – | 1 | 0.83 | 1 | 0.866 | 1 | 0.826 |
| **FDA** | – | – | 0.796 | 0.782 | 0.859 | 0.822 | 0.804 | 0.797 |
| **MARS** | 0.865 | 0.745 | 0.818 | 0.786 | 0.901 | 0.822 | 0.827 | 0.815 |
| **SVM** | – | – | 0.864 | 0.81 | 0.932 | 0.861 | 0.861 | 0.826 |