Digital Naturalist - AI Enabled tool for Biodiversity Researchers

PROJECT OBJECTIVES:

EMPATHIZE:

These techniques have been profoundly transformed into our ability to extract information from visual data. AI techniques have been applied in facial recognition automate tasks and for example they are used in Manufacturing robots ,Self-driving cars, Smart assistants, Healthcare management and Automated financial investing.

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They recently made more widely accessible after their use in smart phone apps for face recognition and song identification. Combined with increasing access to cloud-based computation, AI techniques can now automatically used in everyday life

APPLICATION OF AI:

To biological recording have to date typically focused on active sampling, that is, images collected specifically for the purpose of recording wildlife (e.g., wildlife recording apps or camera traps). However, this has neglected large amounts of image data that are not collected for the purposes of biological recording, but which nonetheless may contain useful information about biodiversity

HIGHLIGHTS:

- Images are spatially aggregated and represented by species
- Images focused on a single, non-horticultural, plant are most have been identified.
- AI image classifiers can create biodiversity datasets from social media imagery.