AI for Earth

Azure award grantees

Microsoft

About

AI for Earth is dedicated to deploying Microsoft's deep investments in AI and technology in the four key areas of climate change, agriculture, biodiversity, and water. Through grants that provide access to AI, training and educational offerings, and investments in scalable, innovative solutions, we're working to build a more informed, sustainable, and resilient future.

AI for Earth grantees apply computer vision, machine learning, deep learning, and other AI disciplines to conservation challenges around the world. Computer vision, machine learning, deep learning, and other AI disciplines are being applied to conservation challenges around the world. Learn more about Microsoft's sustainability commitment at microsoft.com/environment.

Awards

To date, we have awarded 236 grants to projects with impact in 63 countries, and are committed to growing this community of grantees.

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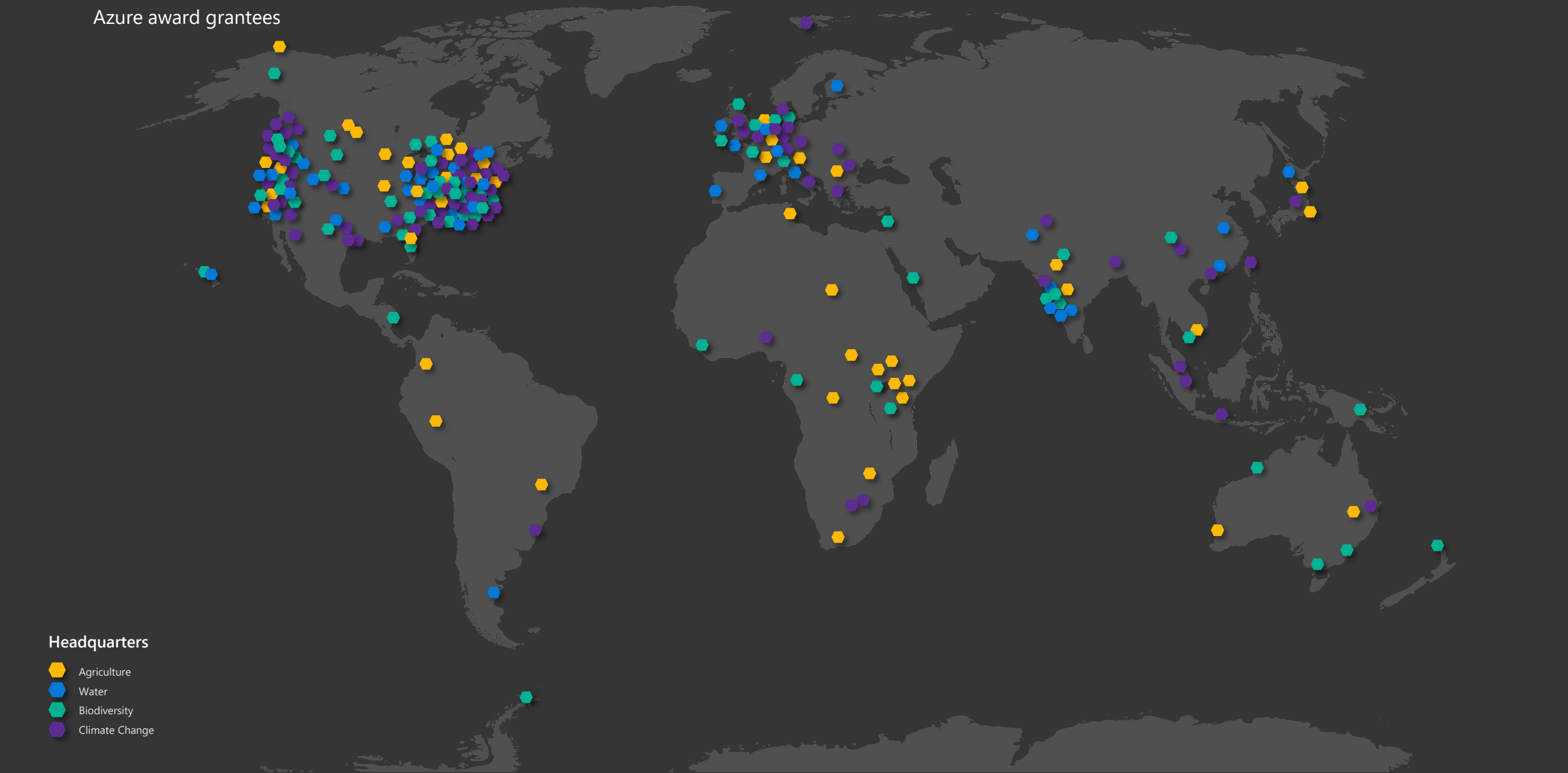

AI for Earth

Azure award grantees

Microsoft

808 Cleanups
Mapping marine debris with machine learning and citizen science
Water

Aalborg University
High-resolution spatialized population projections
Climate Change

Adirondack Research
Labeling invasive species vulnerability attributes of Adirondack lakes that predict aquatic invasion; a new way to guide early detection and rapid response
Water

Aker Technologies Inc.
AI for Earth/Esri
Agriculture

An Giang University
AI to classify and identify insects for biodiversity discovery of Mekong Delta
Biodiversity

Aquanty Inc. in collaboration with Agriculture and Agri-foods Canada
A hybrid-AI-based Decision Support Tool for Water Quality Forecasting
Water

ATREE
Bioresources ATLAS of Northeast Indi
Biodiversity

Audubon Society
Using cloud-based, high-throughput image classification solutions to conserve biodiversity in response to extreme weather events and rapid landscape change
Biodiversity

Australian Wildlife Conservancy
Image Recognition and Classification of Feral and Native Australian Fauna
Biodiversity

Berkeley University
Understanding the effect of climate change on human migration in Africa using 1.6 million historical aerial photographs
Climate Change

Binghamton University
Wetland mapping and monitoring using geospatial bigdata and deep learning"
Water

Boston University
AI for Earth: Cloud-Based Urban Climate Action Planning
Climate Change

Breeze Technologies UG
Artificial Intelligence Against Air Pollution
Climate Change

Brigham Young University
Improved streamflow forecasting service for flood and drought prediction at a local and global scale
Water

Brown University
Assessing surface water sensitivity to permafrost extent using cubesat imagery and machine learning
Climate Change

Buxtar
Coffee Agenda
Agriculture

Caltech
Generalizable Recognition Models for Camera Trap Image Analysis
Biodiversity

Carnegie Mellon University
Improving patrol strategy to combat poaching using deep reinforcement learning
Biodiversity

Carnegie Mellon University
Vehicle counting with deep convolutional neural networks for sustainable freight transportation
Climate Change

CEDO Intercultural
AI for Earth: Climate change communications in the Gulf of California, Mexico
Climate Change

Center of Safety Excellence
An Advanced Reactor and Storage Tank Emission Model
Climate Change

Centro Alexander Von Humboldt
Forest monitoring platform of deforestation in two forest districts of Nicaragua
Biodiversity

Cetaqua
A prescriptive analytics approach for orchestrating agricultural, urban and industrial uses of water from watersheds
Water

Chapman University
Ocean Bottom Type Classification and Change Detection using Satellite Imagery
Water

Chesapeake Conservancy
Leveraging Azure for Landscape Change Analysis
Water

Chinese Academy of Science,
Kunming Institute of Zoology
Simulations to curb climate [change] in a collectivist society
Climate Change

CIMMYT
Accounting for climate change uncertainty in fertilizer recommendations to maize systems in Sub-Saharan Africa
Agriculture

City University of Hong Kong
Benthic habitat imaging and mapping for exploring and monitoring mesophotic coral ecosystem in Pearl River Delta
Water

Claremont Graduate University
Deep learning for early detection, identification, and mapping of cassava diseases using multispectral aerial imagery
Agriculture

Columbia University
Real time earth
Climate Change

Columbia University
What if they fail? AI to assess the hazard of aging dams and levees
Water

Columbia University
Keeping a close watch on our trees: large-scale forest ecological surveys via a data science workflow using high-resolution imaging and remote sensing data
Biodiversity

Congretype
Maize and Sweet Sorghum Soil and Crop Pest detection System based on Artificial Intelligence enabled by TV White Spaces Super WIFI connectivity in Rural Zimbabwe and South Africa
Agriculture

Conservation International
Wildlife Enforcement and Regulatory Platform
Biodiversity

Conservation Metrics
Elephant Listening Project
Biodiversity

Conservation Science Partners
Forest disturbance detection and hydrologic response in the Western US
Climate Change

Conservation X Labs
ChimpFace: Using Image Analysis to Identify Wildlife Trafficking Online
Biodiversity

Cornell University
Artificial intelligence driven yield and crop cover forecasting utilizing real-time precision agriculture data
Agriculture

Cornell University
The new buzz: AI-powered acoustic monitoring of insect communities to advance conservation of tropical rainforests
Biodiversity

Cornwall Seal Group Research Trust
Using Artificial Intelligence to identify seals throughout Cornwall
Biodiversity

Council for Scientific and Industrial Research (CSIR)
Rapid Vegetation Mapping for Burnt Area Estimation and Vegetation Condition Estimation with Sentinel-2 Satellite Images
Climate Change

Deltares
A climatology-based approach for landslides identification and generation of hazard maps
Climate Change

Deltares
EU OceansData Integrated Modelling
Water

Department of Geographical Sciences, University of Maryland
Modeling Wildland Fire Ignition Probability in Alaskan Tundra with Numerical Weather Modeling and Machine Learning
Climate Change

Development Seed
AI Dataset for Predicting Atmospheric Phenomenon from Satellite Imagery
Climate Change

Deveron UAS
The Use of Artificial Intelligence to Apply Nitrogen Fertilizer According to Spatially Variable Cover Crops
Agriculture

Dex
Computer vision for biosecurity
Agriculture

DHI Group
Improving crop water efficiency in Uganda using machine learning
Agriculture

Duke University
AI for Earth: Modeling below ground biomass for carbon sequestration applications (Climate change focus)
Climate Change

Duke University
Developing cloud-based workflows for mapping and censusing seabird breeding colonies at scale with unmanned aircraft systems and machine learning
Biodiversity

EcoHealth Alliance
AI for **Earth**/Esri : IBIS- A One Health Technology for Identifying and Mitigating Global Pathogen Risks Posed to Humans, Animals and Ecosystems
Biodiversity

EcoHealth Alliance
Improving our understanding of global pathogen biodiversity and distribution using text analytics and natural language processing
Biodiversity

EcoHealth Alliance
Creating an annotated text corpus to automate place name extraction (toponym resolution) from the text of scientific publications
Biodiversity

Enerbrain srl
Delivering improved indoor comfort (temperature, humidity and CO2) up to 95% of time and delivering up to 30% energy savings for operations of HVAC in tertiary buildings
Climate Change

Energyrathon Consulting Ltd
AI-augmented CO2 Capture: Global Warming Reduction
Climate Change

Ensaras, Inc.
Optimizing Wastewater Treatment Using Advanced Analytics
Water

ETH-Zurich
Fighting deforestation with deep learning and smart contracts
Biodiversity

Farming Online
To employ machine learning and neural networks within the coffee supply chain to determine optimum harvest date of coffee at any growers location
Agriculture

Finnish Environment Institute
AI for automatized monitoring of water quality and vegetation biodiversity
Water

Florida Agricultural and Mechanical University
An Integrative Cloud and AI-based Strategy for Collaborative, Multiscale Natural Resource Management
Biodiversity

FlowWest
Quantifying Floodplain Habitat for Salmon in California's Central Valley
Water

Fondazione Bruno Kessler (FBK)
Modeling crop-specific impact of heat waves by deep learning
Agriculture

Fraunhofer Society for the Advancement of Applied Research
SynErgie
Climate Change

Georgia Institute of Technology
Supporting conservation planning using mathematical optimization
Biodiversity

Key

- Agriculture
- Water
- Biodiversity
- Climate Change

AI for Earth

Azure award grantees

Microsoft

Georgia Institute of Technology
Deep learning for fine-scale population maps
Climate Change

Georgia Southern University
Deeply Learn Spatiotemporal Air Pollution Data and Create a Visual Analytic Platform
Climate Change

German Society for International Cooperation (GIZ) GmbH
Change Detection for Land Cover Mapping around the areas surrounding the Murchison Falls National Park
Agriculture

Ghent University
Applying ML and AI to ultimately turn global agricultural data into automated animal health and welfare monitoring tools
Agriculture

Environment and Technology Foundation
Machine learning for improved water services
Water

Griffith University
Below ground carbon level prediction using Convolutional Neural Network (CNN)
Climate Change

Harvard University
AI for Earth: Assessing the potential for climate change and forest insects to drive land-use regime shifts
Biodiversity

Hokkaido University Nexus Group
Bio-Hydro-Geo Dynamics: Mapping Systemic Earth Risk
Water

I.T.Grapes
Seabex
Agriculture

ICDDRB
Climate-change driven Cholera and a proposed Early Warning System
Climate Change

IIT Gandhinagar
Scalable air-quality estimation using multi-modal data
Climate Change

IMT Atlantique
Bridging physically-driven and data-driven schemes for the identification, forecasting, and reconstruction of ocean dynamics
Water

Independent
Detecting regional level bioluminescence events from satellite data
Climate Change

Indian Institute of Science
Scalable Analytics for Equitable Water Distribution in Mega Cities
Water

Indiana University-Purdue University Fort Wayne
A Real-Time Water Body Monitoring System
Water

Indraprastha Institute of Information Technology
Intelligent tool for monitoring monkey population
Biodiversity

InFarm
Identification and Classification of discrete weed species in an agricultural setting
Agriculture

Innate Engineering Fabrication Research and Development
An AI assisted collaborative database for lion identification and inter-organizational research
Biodiversity

Institute of Remote Sensing and Digital Earth (RADI) under the Chinese Academy of Sciences
A Deep learning approach to monitor Aquaculture Ponds utilizing satellite remote sensing images in large scale
Water

Instituto Patagónico para el Estudio de los Ecosistemas Continentales (IPEEC)
Artificial intelligence for land use/land cover classification and mapping in an agricultural valley of Patagonia, Argentina.
Water

International Center for Tropical Agriculture
Enhancing food and nutrition resilience in Africa through a nutrition early warning system
Agriculture

International Crops Research Institute
for the Semi-Arid Tropics
Plant pest prediction models and farm advisory
Agriculture

Jane Goodall Institute
Using the power of Azure cloud to identify chimpanzee habitat connectivity and conservation priorities in Africa.
Biodiversity

Jejak.in
Monitor the Conservation Program in Citarum Watershed using Artificial Intelligence
Climate Change

KBM Resources Group
The Development of Machine Learning Methodologies for Determining Stand-Level Forest Attributes in the Canadian Boreal
Biodiversity

Keio University
AI for Earth Grant
Agriculture

King Abdulaziz Universit
Developing an object detection neural network dataset to classify Dinoflagellates
Biodiversity

Laboratory of Ethology
Cognition Development (LECD)
Bird Vocalizations Communication Interface (BVCI)
Biodiversity

Lakehead University
Development of a forest resource inventory by utilizing deep learning for automated tree species identification, stand delineation and land classification
Biodiversity

Lancaster University
AI for Self-Configuring Models of Everywhere
Climate Change

Long Live the Kings
Water, climate, and food web effects on the survival of Puget Sound salmon: bolstering marine ecosystem modeling with Azure cloud computing
Biodiversity

Lviv Polytechnic National University
Mathematical simulation and geospatial analysis of solar energy potential.
Climate Change

Madaster
Eliminate waste by providing materials with an identity
Climate Change

Marine Imaging Lab, Univ. of Haifa
Artificial Intelligence for Coral Reef Mapping
Biodiversity

Marshall University
Pure Life: Understanding the Rationale of Harmful Algal Blooms (HABs) in Aquatic Ecosystem
Water

Massachusetts Institute of Technology
Hardware-enabled AI for the future of sustainable indoor agriculture
Agriculture

Massey University
Automating photo-identification of marine mammals using deep learning
Biodiversity

McGill University
Climate Change Mitigation for Smart Cities
Climate Change

Mehran University of Engineering and Technology, Jamshoro
Evolvement of groundwater arsenic and health risk assessment prediction model via machine learning in Sindh, Pakistan
Water

Michigan State University
Complexity as a holistic path to sustainability, not a roadblock
Climate Change

Microsoft India RandD
AGRISTACK - Cloud Backbone for Farmer Information Services in India
Agriculture

Monash University
Mapping Species distribution in space and time using social network geotagged photos and Azure cognitive services
Biodiversity

National Meteorological Administration
Changes in Regional Climate Extremes using very high resolution downscaling of GHG and land-cover scenarios over Romania (RegEX-RO)
Climate Change

National Oceanography Centre
A deep learning approach to predicting the North Atlantic wave sea states
Water

National University of Ireland, Galway
Stereo imaging of rogue waves
Water

Natural Disaster Research Center
Dairy productivity improvement model by big data analysis
Agriculture

NatureServe
A National Map of Biodiversity Irreplaceability to Guide Conservation Investment
Biodiversity

Northeastern University
Risk assessment and sensitivity analysis of climate change on crop models using machine learning and big data analytics
Agriculture

Northeastern University
The networked digital earth for harnessing complexity and designing policy
Climate Change

ODINN
Invasive Predator detection in the Australian outback
Biodiversity

Oizom Instruments Private Limited
Environmental AI : A platform to identify Environmental Impact on Public Health
Climate Change

Palo Alto Venture Architects
Autonomous Livestock Farm Footprint Monitoring and Reporting using Big Data Analytics and IOT – A Microsoft Research Project Proposal
Agriculture

PDRA University of Sheffield
AI at the Ends of the Earth
Climate Change

Peace Parks Foundation
Conservation Farming App
Agriculture

Peace Parks Foundation
AI to Fight Wildlife Crime: Smart Parks to transform anti-poaching in protected areas affected by wildlife crime, prioritizing the Intelligent Camera Trap solution
Biodiversity

Peace Parks Foundation
Master Tracker App
Biodiversity

Pennsylvania State University
Advancing Computational and Image Understanding Technologies for Better Pattern Discovery on Big Weather Data
Climate Change

Pennsylvania State University
Cloud-enabled hydrology mesh workflows
Water

Politecnico di Milano
Deep learning for snow monitoring and predictive water system operation
Water

Queensland University of Technology
Targeted hyperspectral drone-based reef monitoring.
Water

Quest University Canada
Using UAVs and AI to Monitor Breeding Seabird and their Habitat
Biodiversity

RaIn for Climate
Rain for Climate initiative
Water

Rainforest Alliance
AI for sustainable farming
Agriculture

Reclaim Our Forest
Giving a Voice to Forests and Wildlife using AI and Renewable Energy
Climate Change

Rice University
HydroAI: Improving ENSO-driven rainfall prediction over North America with Machine Learning
Climate Change

Rice University
Predicting Large-Scale Extreme-Causing Weather Patterns using Deep Learning
Climate Change

Key

- Agriculture
- Water
- Biodiversity
- Climate Change

AI for Earth

Azure award grantees

Microsoft

Rice University - Department of Earth
Environmental, and Planetary Sciences "Global water quality prediction with the Azure Machine Learning Studio
Water

Royal Society for the Protection of Birds
Gola Rainforest Camera Trap Analysis
Biodiversity

Saint Louis University
Connected conservation and applied remote sensing for One Health at the intelligent edge in Kenya and Madagascar
Agriculture

Scientific Innovations, Inc
Detection and Localization of Marine Mammal Calls
Biodiversity

Scripps Institution of Oceanography, Center for Western Weather and Water Extremes
Atmospheric River Forecast
Model Bias Correction
Water

Shenzhen University
Quantifying environmental impacts of electric vehicles with human mobility using artificial intelligence and spatial analysis
Climate Change

Singapore Institute of Technology
Climate Modelling and Weather Forecasting with Deep Learning
Climate Change

SIT
Smart Environment Information and Management System (SEIMANS)
Water

SkyMap Global
Increasing the Accessibility of Remote Sensing Applications for Decision Making Support Systems
Climate Change

Snapshot Serengeti
Snapshot Serengeti
Biodiversity

Snow Leopard Trust
Snow Leopard Image Recognition and Population Modeling
Biodiversity

Southern California Coastal Water Research Project
Using imagery from unmanned aerial systems (drones) to identify trash in waterways to inform cleanup efforts and determine trash policy effectiveness
Water

Stanford University
Mapping of Small Dams and Reservoirs with Earth Observation and Artificial Intelligence
Water

Stanford University
Stanford Urban Risk Framework (SURF)
Water

Stony Brook University
Coupling AI with predictive modeling for real-time tracking of Antarctic penguin populations
Biodiversity

SUNY College of Environmental Science and Forestry
Collaboration for the Reduction of Toxic Emissions in A Warming World
Climate Change

Symbiosis Institute of Technology
Smart Meter Data Analytics for the reduction of energy consumption and carbon emissions
Climate Change

Taiwan AI
Beyond beauty - homeland from above
Climate Change

Tanzania Conservation Resource Centre
Technology for Wildlife Survey
Biodiversity

Technical University of Munich
Low-cost handheld plant health monitoring device for resource limited regions
Agriculture

The Freshwater Trust
Development of a Dynamic, Multi-Objective Optimization Algorithm to Improve the Allocation of Agricultural Conservation Practices
Agriculture

The Nature Conservancy
Using Artificial Intelligence to Monitor Wildlife in Southwest China
Biodiversity

The Nature Conservancy
Circuitscape on Azure: Catalyzing connectivity assessments and advancing conservation under climate change
Biodiversity

The School of Earth and Environmental Science Queens College - CUNY
Using the Azure Cloud to Analyze Data from the World's Most Extensive Deep-Sea Fiber-Optic Cabled Observatory
Water

The Trust for Public Land
The trust for public land Microsoft Azure data science machine pilot concept
Climate Change

Tohoku University
Dynamic disaster management cloud service platform based on satellite remote sensing and artificial intelligence
Climate Change

U.S. Forest Service
Accounting for trees in agricultural landscapes
Agriculture

Universidade Federal do Ceará
SharinAgro
Agriculture

University of Akron
Open-Source Spectrometer For Citizen Science
Water

University of Alabama in Huntsville
Harmful Algae Blooms
Water

University of Alaska, Fairbanks
Modeling the Distribution of the Great Gray Owl in Alaska
Biodiversity

University of Alberta
Massively parallel computing for grizzly bear conservation
Biodiversity

University of Arizona
Forecasting and visualizing the fates of Earth's species under climate change: Can deep learning infer generalizations about species range shifts across hundreds of thousands of species
Biodiversity

University of Arizona
Flood frequency analysis and hazard assessment using geospatial, climate big data and machine learning
Climate Change

University of British Columbia
Creating forest management solutions for conservation of biodiversity and protection of carbon in forests as climate changes
Climate Change

University of British Columbia
Integrate machine learning and remote sensing for enhancing climate change mitigation and adaptation in agricultural ecosystem
Climate Change

University of British Columbia
Urban greenspace and climate change: how are Canada's 150 cities changing
Climate Change

University of Bucharest
Integrated assessment of the variability of the urban heat island of Bucharest using coupled WRF, LSM, and satellite imagery
Climate Change

University of California, Berkeley
Farmer Chatbot - Using NLP to scale social welfare
Agriculture

University of California, Berkeley
Deep learning deep time: microfossil taxonomy for paleoecological community analyses
Biodiversity

University of California, Davis
Endangered killer whale medical records and health database
Biodiversity

University of California, Davis
Data-Driven and Sustainable Ranch Management through Application of Artificial Intelligence for Achieving Carbon Neutrality and Improving Soil Health in Cattle Farms in California
Climate Change

University of California-Santa Barbara
Global maps of center pivot agriculture to improve estimates of land use change and water use
Water

University of Colorado Boulder
LeafMachine: Autonomous Trait Data Extraction from Digitized Plant Specimens using Machine Learning
Biodiversity

University of Connecticut
Sustainable Construction or Waste of Resources? A Study of Housing Demolitions and Relocations in China
Climate Change

University of Copenhagen
Climate change and marine biosphere integrity
Biodiversity

University of Copenhagen
Object Detection for Massive Amounts of Satellite Data via Distributed Machine Learning
Climate Change

University of Denver
Towards developing a GPU cloud based visual analytics framework and tools for large scale Earth science data
Climate Change

University of Edinburgh
Empowering Citizen Science for Earth Conservation with Artificial Intelligence
Biodiversity

University of Florida
A deep learning tree detection API for the National Ecological Observation Network
Agriculture

University of Georgia
Predicting Land Use Changes with Spatial-Temporal Graph Embedding
Agriculture

University of Houston (Central campus)
Improved Hurricane Forecasting System using Deep Learning and Big Data: An Ensemble Approach
Climate Change

University of Iowa
Knowledge discovery, integration and communication for extreme weather and flood resilience using artificial intelligence
Agriculture

University of Maryland
Mapping where child nutrition is vulnerable to climate change and where ecosystem services foster resilience
Climate Change

University of Maryland College Park
Using Deep-Learning Approach to Estimate Instantaneous and Hourly Surface Incident Solar Radiation and Photosynthetically Active Radiation from Multiple Satellite Data
Climate Change

University of Maryland, Baltimore County
Predicting climate change research using dynamic data assimilation for topic modeling
Climate Change

University of Massachusetts Boston
Advanced machine learning for long-lead precursors identification to extreme weather events
Climate Change

University of Miami RSMAS
Big data to predict the future of coral reef health and resilience
Climate Change

University of Missouri
Species detection from camera trap images
Biodiversity

University of Montpellier
Isolated seamounts and islands as the last refugia for marine megafauna: revealing the unseen biodiversity using environmental DNA
Biodiversity

University of New Hampshire
AI for earth by tracking climate change through humpback whale social sounds
Climate Change

University of Ottawa
Artificial Intelligence and Satellite Earth Observation Analytics for Agricultural Land Mapping and Monitoring Using Azure Cloud Computing
Agriculture

University of Oviedo
Development of tools for risk assessment in coastal areas with geographic information systems
Water

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- Agriculture
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- Biodiversity
- Climate Change

AI for Earth

Azure award grantees

Microsoft

University of Pittsburgh
Developing the first open source, scalable bird song classification software
Biodiversity

University of Pretoria
African SDG hub integration
Climate Change

University of Queensland
Developing cloud-based machine learning workflow to detect Night Parrot vocalizations on data from acoustic sensors in outback Australia
Biodiversity

University of Saskatchewan
Image and video analysis for rapid crop phenotyping
Agriculture

University of Saskatchewan
Predicting crop phenotypes from genotypes with deep learning
Agriculture

University of South Florida
AI for Earth Mapping of Florida's Coastal Zone for Climate Change and Biodiversity Assessments
Biodiversity

University of Ss. Cyril and Methodius
Cloud based general weed detection service
Agriculture

University of Texas at El Paso
Developing Next-generation Approaches for High Spatio-temporal Resolution Ecosystem Impact Assessment in the Arctic
Climate Change

University of Victoria
CoaX: Coastal Climate Explorer
Climate Change

University of Washington
Mapping Marine Heatwave Risk in Large Climate Model Simulations
Climate Change

University of Washington
Weather Forecasting Through Artificial Intelligence
Climate Change

University of Washington
Pioneering the integration of microbial system models and microbial community analysis to advance wastewater treatment technology
Water

University of Washington, Department of Civil and Environmental Engineering
Real-time Tsunami Hazard Forecasting in the Salish Sea Using Artificial Intelligence
Water

University of Waterloo
Learning Forest Wildfire Dynamics from Satellite Images using Reinforcement Learning
Agriculture

University of Waterloo
Using Azure services for integrated environmental monitoring, modelling and decision making
Climate Change

University of Wisconsin-Madison
Development of an automated computer vision system to monitor behavior of dairy calves
Agriculture

Utah State University
Detecting Subsurface Tile Drainage in Midwest Farmland Using Infrared Photography
Water

VESIT
Rehabilitation and Protection of Coastal Areas
Biodiversity

Vivekanand Education Society's Institute of Technology
Machine Learning based Flood Prediction model for Mumbai
Water

Vivekanand Education Society's Institute of Technology
Contagious disease propagation study and containment strategies using Machine Learning : Indian Scenario
Biodiversity

Vivekanand Education Society's Institute of Technology
Water Supply Management and Catchment Control in Drought Prone Regions of Rural India
Water

Vivekanand Education Society's
Institute of Technology (VESIT) FarmGuide
Agriculture

Washington State University
Using Artificial Intelligence to Monitor Soil Health in Nigeria
Agriculture

Wayne State University
A cloud-based analytics for real-time monitoring of landfills/superfund sites and the adjacent watershed
Water

WetDATA
Democratizing access to water data to accelerate innovation through data visualization, predictive analytics and artificial intelligence applications
Water

WikiNet
Artificial Intelligence for Contaminated Sites Cleanup
Water

Woodland Park Zoo
Creating applications to ID wildlife from camera trap images using machine learning
Biodiversity

Woodland Park Zoological Society
'In the cloud' use-case and workflow with Machine Learning using Tree Kangaroo Model-Predictions in Papua New Guinea
Biodiversity

Worcester Polytechnic Institute
Solutions for climate change science: using deep learning to improve vegetation classification.
Climate Change

World Resources Institute
Predicting Future Deforestation in the Congo Basin
Agriculture

World Resources Institute
Filling the Gap: Leveraging New Satellite Data to Expand Access to Real-Time Air Quality Monitoring Satellite Data to Expand Access to Real-Time Air Quality Monitoring
Climate Change

World Resources Institute
Manage Energy Impacts by Estimating Power Plants CO2 Emissions and Electricity Generation Using ML
Climate Change

World Resources Institute
Mapping global climate mitigation potential from reforestation
Climate Change

World Resources Institute
The Power of Urban Reflectivity: Tackling Mitigation, Adaptation, and Equity through Cooler Surfaces
Climate Change

Yale University
Systematic ground truthing, land classification and crop health
Agriculture

Yellowstone Ecological Research Center
Integrating AI into Ecological Predictive Modeling using Microsoft's Azure
Biodiversity

Yoo Group
Cloud-based Global Water Cycle Model
Water

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