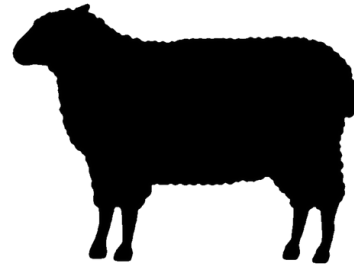CORNELL UNIVERSITY

animal
health
hackathon

2024

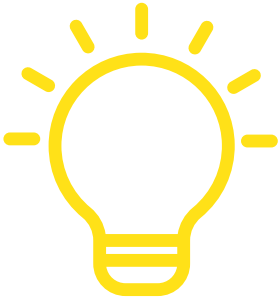COLLEGE OF VETERINARY MEDICINE | ITHACA, NY | FEB 3-5

about the
hackathon

The 2024 Cornell Animal Health Hackathon was an interdisciplinary event which brought together students from across degrees, majors, and schools at Cornell University! Teams comprised of veterinary, business, engineering, and design students, formed to create solutions to needs in veterinary health care. On Saturday, mentors provide feedback and guidance to teams. On Sunday, the hackathon culminates in a project showcase to an audience of peers, mentors, and representatives.

HACK + MARATHON = HACKATHON

A hackathon celebrates the use of minimal resources and maximum brain power to create outside-the-box solutions ("hacks") in a constrained time frame

The 2024 Cornell Animal Health Hackathon is an interdisciplinary event which brought together students from across degrees, majors, and schools at Cornell University! Teams comprised of veterinary, business, engineering, and design students, formed and created to create solutions to needs in veterinary health care. On Saturday, mentors provided feedback and guidance to teams. On Sunday, the hackathon culminated in a project showcase to an audience of peers, mentors, and representatives.
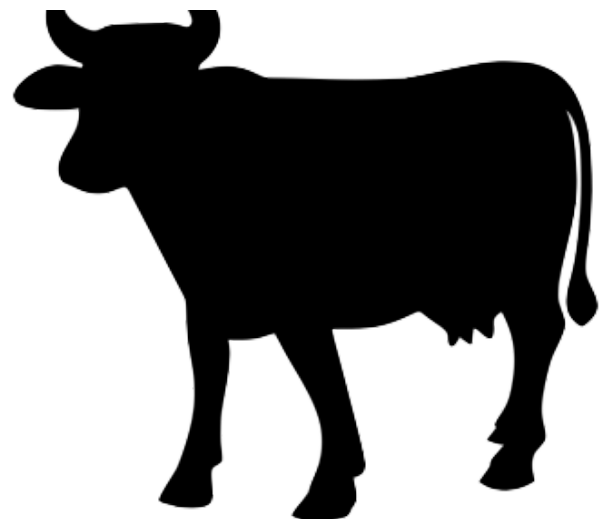
A panel of judges selected and awarded $9,000 to winning teams.

IDEA CHALLENGES

ADDRESSING MASTITIS IN COWS

ALTERNATIVE BANDAGES FOR SUTURES

COMMERCIALIZING FOOD WASTE AS PET FOOD

PREVENTING EQUINE VIRUSES

HOUSEHOLD ANIMAL WEARABLES

... AND MORE!

WINNING TEAMS + FINALISTS

QuickStitch 🐾

🏆 Most Novel & Innovative Animal Health Solution 🏆

QuickStitch is a suture replacer, inspired by existing solutions in human medicine.

Ana Grandgeorge - ENGR MENG BioMed Engr '24
Sunita Devi - ENGR MENG BioMed Engr '24
Caroline Murabito - CALS BS Animal Science '25
Xin Rou "Natalie" Tan - VET DVM '26

Fem5 🐾

🏆 Most Market Ready 🏆

Detecting subclinical mastitis with electrical conductivity

Angelique Miane - ENG MENG BioMed Engr '24
Yaa Achampong - ENG MENG BioMed Engr '24
Bhavishya Agarwal - ENG MENG Engr Mgt '24
Danielle Falcon - Johnson MBA '24
Lauren Meyer - VET DVM '26

Zero 🐾

🏆 Most Relevant & Impactful Animal Health Solution 🏆
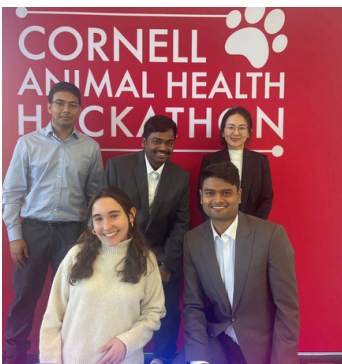
Developing AI-driven onsite point of care diagnostic for common pathogens.

Chenhan Feng - CALS PHD Animal Science '27
Sanjeev Wasti - CALS PHD Animal Sciences '25
Subash Bhandari - ENGR PHD BioMed Engr '26
Zhengfei Li - CALS MS Animal Science '24

Eco Feast

🐾 Finalist

Decreasing food waste with a solution for recycling into pet food.

Akash Gupta - Johnson MBA '24
Aritra Das - ENGR MENG Engr Mgt '24
Katherine Chen - Johnson MBA '24
Patti de Cruilles - ENGR BS Bio Engr '27
Sai Vishnu Bolisetty - ENGR MENG Engr Mgt '24

WINNING TEAMS + FINALISTS

Finalist Vetfluent

Improving veterinarians' ability and access to resources to communicate in Spanish.

Lucia Younger - VET DVM '26
Mary Moravek - VET DVM '27
Taylor Rijos - VET MPH '25
Tejas Ramdas - CIS PhD Stat & Data Science '26

Finalist Lean Paws

AI-powered pet Weight Detection!

Jacqie Marquez & Jalene Beach: VET DVM '25
Natalia Valdivia & Sai Nivedita: Brooks MHA '24
Yue Li Dyson - MPS Behavior Marketing '24
Chuanxue Deng - Dyson MPS AEM '24

Finalist Bridge

An app that captures and visualizes the pet's quality of life to helping owners and vets make better-informed decisions.

Chukwujindu- Johnson MBA '24
Farid Gojayev- Johnson MBA '25
Harsh Siriah- ENGR MENG Engineering Mgmt '24
Jonathan Zirkiev, Maxine Zaretsky, & Sydney Leary: - VET DVM '26

Finalist Hot Cross Buns

Tackling pet obesity through vet/client pair in social community model.

Anushka Jadhav & Raj Pravin Bora: ENGR MENG Engineering Mgmt '24
John Grealish & Maggie Holloway: VET DVM '25
Karli Fletcher - Tufts DVM '25
Tangwuyou Su - CIS MPS Info Sci '24

FINALIST + 2024 TEAMS

Finalist

EquiTrace

QuickStitch is a suture replacer, inspired by existing solutions in human medicine.

Ana Grandgeorge - ENGR MENG BioMed Engr '24
Sunita Devi - ENGR MENG BioMed Engr '24
Caroline Murabito - CALS BS Animal Science '25
Xin Rou "Natalie" Tan - VET DVM '26

D.E.C.

Detecting subclinical mastitis with electrical conductivity

Angelique Miane - ENG MENG BioMed Engr '24
Yaa Achampong - ENG MENG BioMed Engr '24
Bhavishya Agarwal - ENG MENG Engr Mgt '24
Danielle Falcon - Johnson MBA '24
Lauren Meyer - VET DVM '26

AccessPulse

Developing AI-driven onsite point of care diagnostic for common pathogens.

Chenhan Feng - CALS PHD Animal Science '27
Sanjeev Wasti - CALS PHD Animal Sciences '25
Subash Bhandari - ENGR PHD BioMed Engr '26
Zhengfei Li - CALS MS Animal Science '24

Vet Tech Mobile

Decreasing food waste with a solution for recycling into pet food.

Akash Gupta - Johnson MBA '24
Aritra Das - ENGR MENG Engr Mgt '24
Katherine Chen - Johnson MBA '24
Patti de Cruilles - ENGR BS Bio Engr '27
Sai Vishnu Bolisetty - ENGR MENG Engr Mgt '24

2024 TEAMS

CHOW

Improving veterinarians' ability and access to resources to communicate in Spanish.

Lucia Younger - VET DVM '26
Mary Moravek - VET DVM '27
Taylor Rijos - VET MPH '25
Tejas Ramdas - CIS PhD Stat & Data Science '26

OBSERVET

AI-powered pet Weight Detection!

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Natalia Valdivia & Sai Nivedita: Brooks MHA '24
Yue Li Dyson - MPS Behavior Marketing '24
Chuanxue Deng - Dyson MPS AEM '24

Mission Impawsible

An app that captures and visualizes the pet's quality of life to helping owners and vets make better-informed decisions.

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Pawsitive EmBrace

Tackling pet obesity through vet/client pair in social community model.

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John Grealish & Maggie Holloway: VET DVM '25
Karli Fletcher - Tufts DVM '25
Tangwuyou Su - CIS MPS Info Sci '24

Pet Pals

A matchmaking app connecting pet owners with trusted caretakers.

Abhiram Pulipati, Sam Penumala, Shriya Baskaran, Sneha Scindhia, and Ashok Anand: ENGR MENG Engineering Management '24
Lindsey DeNooyer - VET DVM '25
Omotayo Kayode - Johnson MBA '24

Sound Steppers

IMU sensor & GPS imbedded in a heel grab. monitors stride length, force of footfall, and balance in horses.
Alexandria Davis - VET DVM '27
Awais Javid CALS - PHD Animal Science '24
Hailee Greene - Johnson MBA '24
Morgan Coley - Tufts DVM '25
Muhammad Umar - ENGR PHD ECE '25

Swift Care

A platform to connect pet owners with nearby emergency care.

Colin Harrington and Maryam Ahmed: VET MPH '25
Joseph Mathew - ENGR MENG Engr Mgt '24
Lauren LaBelle - Johnson MBA '24
Reed Milnor - VET DVM '27

Underdog

Dog harness that can track temperature and heart rate to help bridge gap between vets/owners for medical literacy.

Jennifer Smalls & Taylor Rondon: VET DVM '26
Modupeoluwa Ogunmekan: ENGR BS ECE '27
Polly Parsons - Dyson BS Entrepreneurship / Finance '27
Sowad Karim VET MPH '25

2024 TEAMS

Vet to Vet

Using AI generated answers to answer straightforward questions for newly graduated vets.

Crystal Guzman, Niamh Durniak, & Olympia Swaby: VET MPH '25
Rita Lawachaiyothin - Johnson MPS Mgmt '24
Sebastian Llanos Soto - VET PHD Epidemiology '24
Cheng Ma VET DVM '26

Vet Aid Pet Saved

Using AI to create accurate medical diagnoses in order to decrease medical error.

Akshayakeerthi Arthanarisami - CALS PHD Biochem, Molecular & Cell Biology '28
Helen Bian and Sergio Lopez: A&S BA CS '27
Nikol Miojevic - CALS BS Bio Engr '27
Simone Ferrantello - Tufts DVM '25

Wyman

A pet's skin health app providing accurate disease detection, instant remedies, and direct vet consults.

Alisha Shah, Svara Mehta, Vansh Badkul: MENG Engineering Mgmt '24
Oritsemolebi Adebiyi and Uche Onyekuru: Johnson MBA '24
Chloe Roberts - VET DVM '26

Hacking Hamsters

An app that fosters community by connecting animal lovers & providing info about pet-friendly activities & establishments.

Allison Hui - A&S BA CS '25
Andrew Wu - CALS BS Info Sci '25
Joyce Lu - VET DVM '26
Namita Kulkarni - VET MPH '25

Vet Vise

Real-time diagnosis learning & mentorship tool for new veterinarians enhancing proactive clinical reasoning.

Arushi Aggarwal and Grace Wei: CALS BS Info Sci '26
Jeremiah Pouncy - VET DVM '27
Rhea Goswami - ENGR BS CS '26
Saumya Desai - CALS MPS Food science '24

Blood Hubs

Creating website that allows people to produce network between Blood Banks, Emergency Vets, and Donors to meet animal blood needs.

Daniel Wong - A&S BA CS '25
Jack Chen - ENGR BS CS '25
Jesse Cheng - A&S BA CS '25
Sophia Kira - Lucas VET MPH '25

Phantom

PETEVER app for end-of-life care, focusing on pets' mental health.
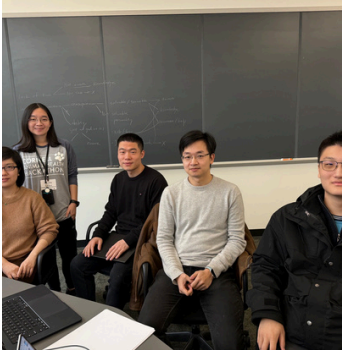
JVET MPH '25: Jiahuan Zhao, Miuccia Zhang, Snow Wang, Yihan Bao, Zequn Wang, and Zhengyu

EmPawThy

EmPawThy makes pet care easy with an app for health records, personalized plans, and helping shelters. It's like a buddy for you and your pet.

Johnson MBA's '24: Ahmed Aldubaisi, Angela Vega, Muhannad Alhulayyil, Simon Lawrence, Valeria Kaplan
Arvind Rishi: ENGR MENG Engineering Mgmt '24

FurReal

Engaging kids to learn about dog ownership before getting one; a game simulating real-life responsibilities of ownership.

Hsin-Ming Chao - HUMEC MS DEA '24
Qi Yang - HUMEC PHD Human Behavior & Design '24
Serena Guo - ENGR PHD Info Sci '26
Ziyang Qin - HUMEC BS DEA '26

> "Between the mentors, the networking, the food, the friends, and the fun involved, it was such a positive experience, more than I could have hoped for."

" I loved speaking to the mentors and found the mentorship and networking experience to be both helpful and a fun way to collaborate on ideas. "

" I've already recommended the hackathon to so many friends. "

A schedule packed with mentorship, networking, team updates, workshops and swag.

150 STUDENTS
29 TEAMS

Representing Majors	
MENG	18%
BS	12.67%
MPH	14.67%
BA	6.00%
MBA	14.00%
DVM	20.67%
MPS	4.00%
PhD	6.67%
MS	2.00%
MHA	1.33%

Cornell Colleges	
ENGR	23.97%
CALS	10.96%
VET	34.93%
HUMEC	4.11%
A&S	5.48%
Johnson	16.44%
CIS	0.00%
Dyson	2.74%
Brooks	1.37%

18.67% *UNDERGRADUATE STUDENT PARTICIPANTS*

81.33% *GRADUATE STUDENT PARTICIPANTS*

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Center for Veterinary
Business and Entrepreneurship

Cornell University | College of
Veterinary Medicine

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IN PARTNERSHIP WITH

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CareCredit

DestinationPet™

Boehringer
Ingelheim

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TRIAD FOUNDATION

We thank you for your continued support in our efforts to revolutionize student learning and veterinary care.

Thank you !