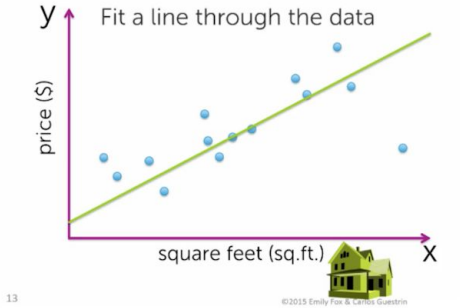
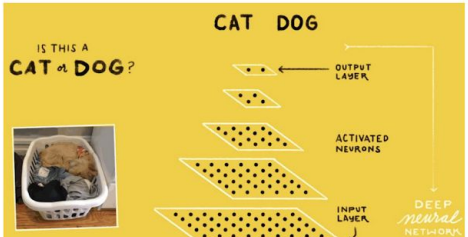
VietAI

Supervised learning
(example, label)

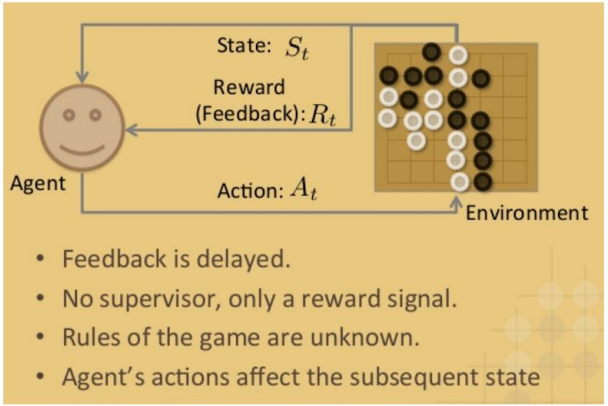
Regression: predict real numbers

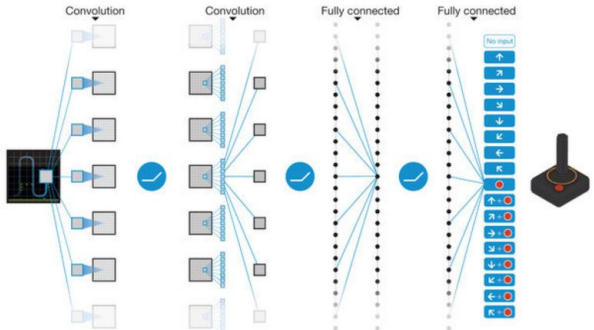


Classification: predict discrete categories (binary, multi)

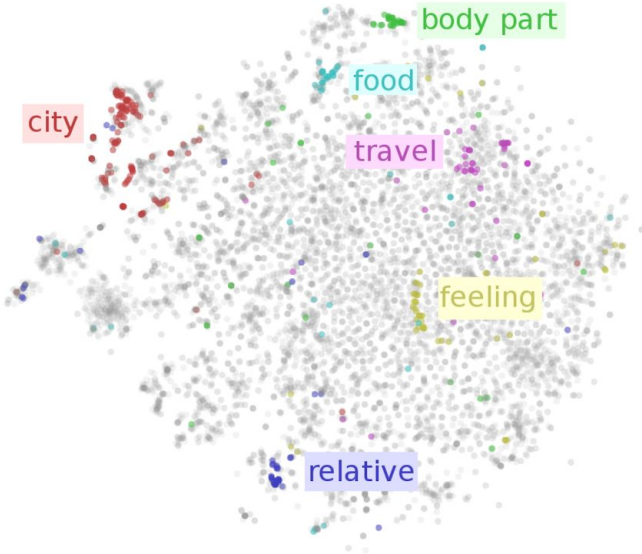


Reinforcement learning
(agent, environment)

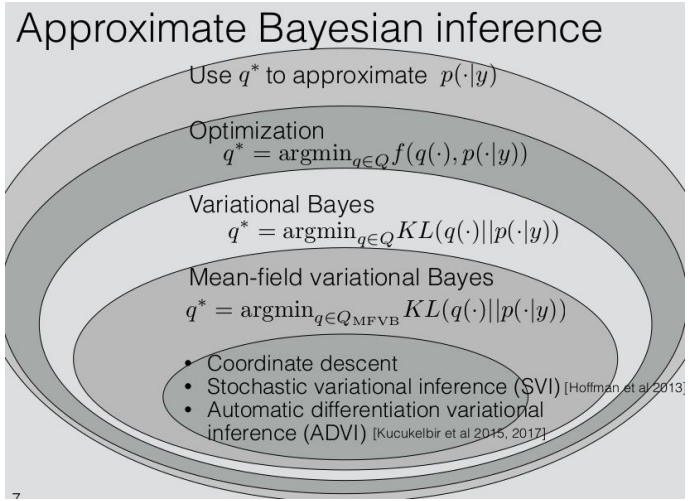




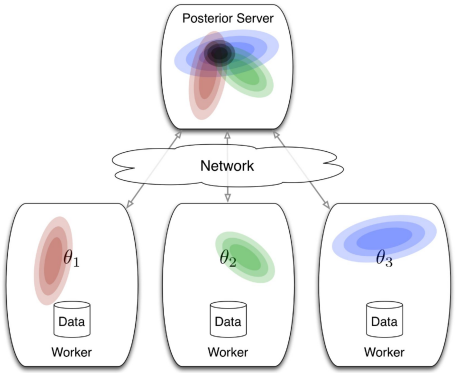
Unsupervised learning
(data only)



https://colah.github.io/posts/2015-01-Visualizing-Representations/



Distributed Bayesian Learning



[Hasenclever et al, JMLR 2017]

Variational inference

Bayesian deep learning and Deep Bayesian learning

Distributed Deep Learning

AI in industries

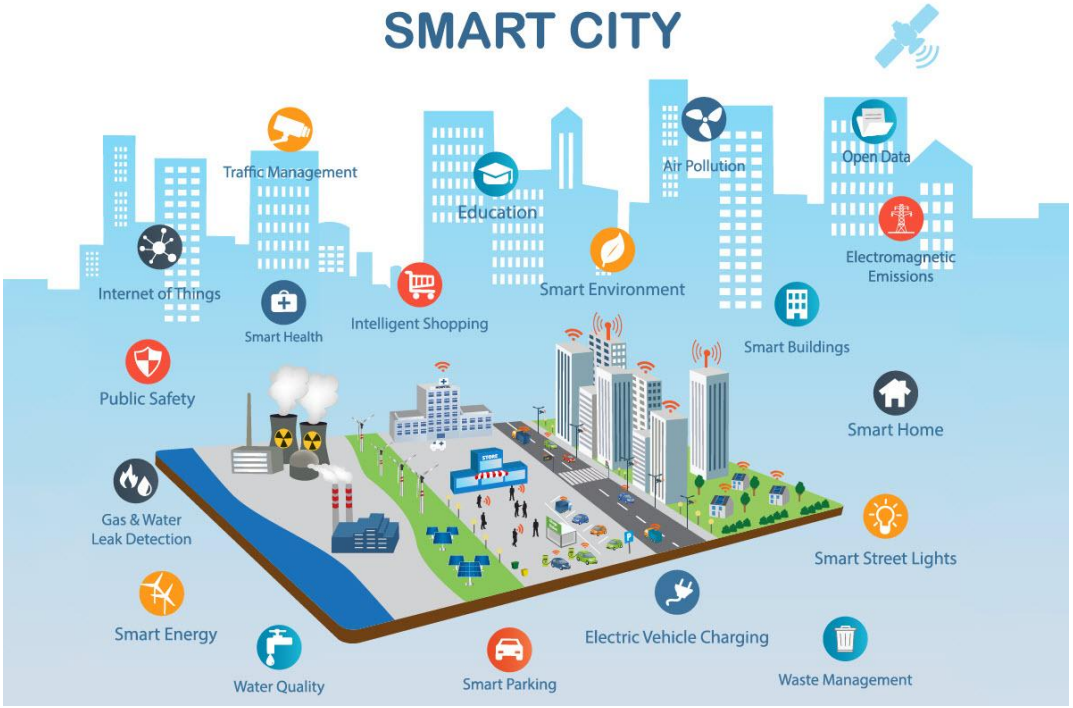
Automotive industry

Traffic-analysis key players

INRIX

100 million vehicles using their solution predict how traffic will flow via historical traffic patterns, weather and local events data.

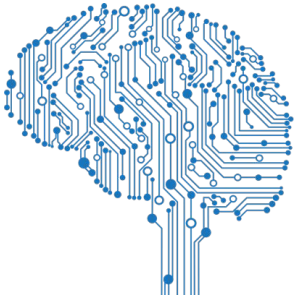
VietAI



Smart cities

VietAI

BIG DATA



SmartCity

Virtual Realty

BLOCKCHAIN

Construction industry

Landmark 81 - HCM city

20% cost - design and construct the building

80% cost - operate

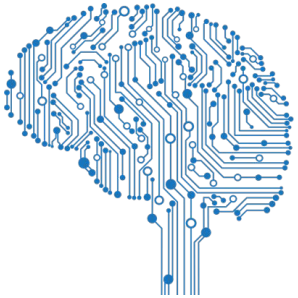
Key players in construction industry

REVIT autodesk

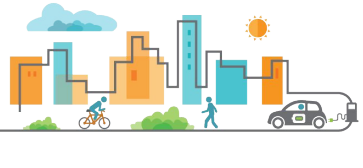
BIM (Building Information Modeling) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

VietAI

BIG DATA



SmartCity



Virtual Realty

VietAI

BUILDING A COMMUNITY OF WORLD-CLASS
AI TALENTS IN VIETNAM

VietAI

Official Logo of VietAI Organization

VISION

Inspire people to solve meaningful and impactful problems for not just Vietnam but also the world.

Bring Vietnam closer to AI superpower countries in the world.

WHY WE EXIST

Artificial Intelligence (AI) is all around us under many forms from smart mobile devices, virtual assistants, to robots and self-driving cars. Despite rapid progress in AI over the last few years in many countries, Vietnam still lags behind, merely touching at the surface of the technology.

WHO IS VIETAI ?

VietAI is a Non – Profit organization with long-term passion of training the next generation of young AI talents in Vietnam and further to build a strong Vietnamese AI community.

Its primary focus is cutting-edges training and educational projects on Machine Learning, AI benefitting youth Vietnamese.

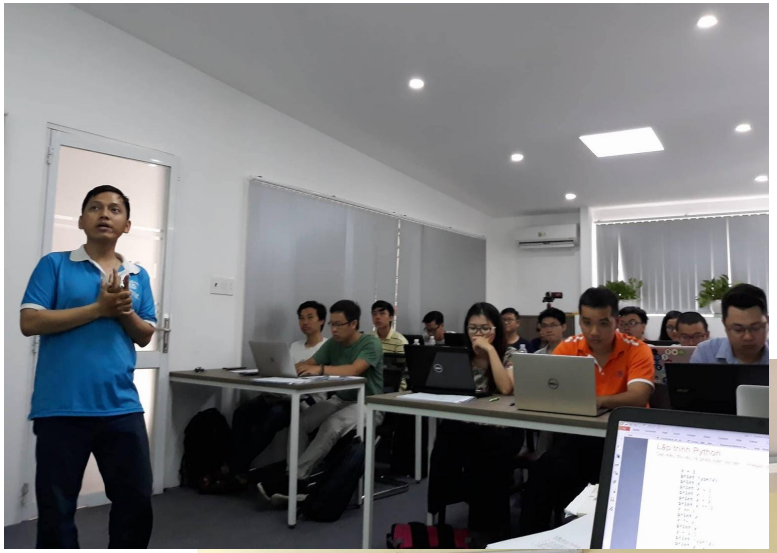
OUR VALUES:

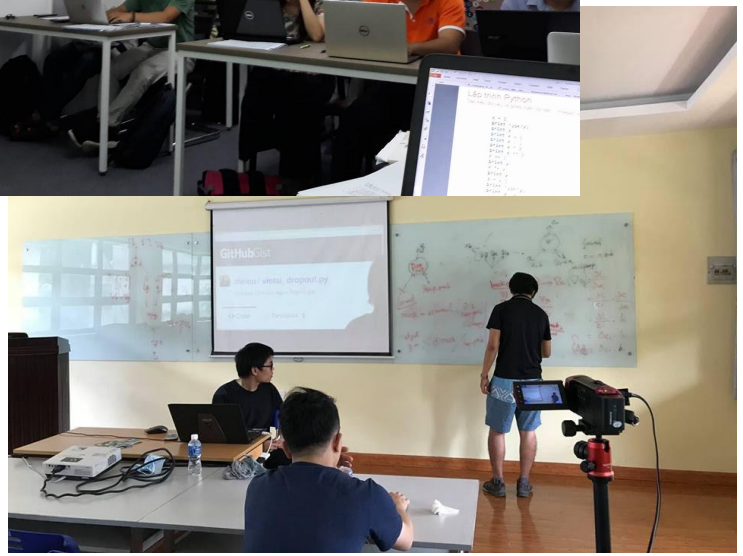
Integrity | Professionalism | Innovation | Commitment

OUR APPROACH

Its primary focus is cutting-edges training and educational projects on Machine Learning, AI benefitting youth Vietnamese.

Launched in 2017 as a hands-on AI training project, it has been attracted growing attention and is seen as the early-mover and leading innovator in AI Training ventures for youth in Vietnam.





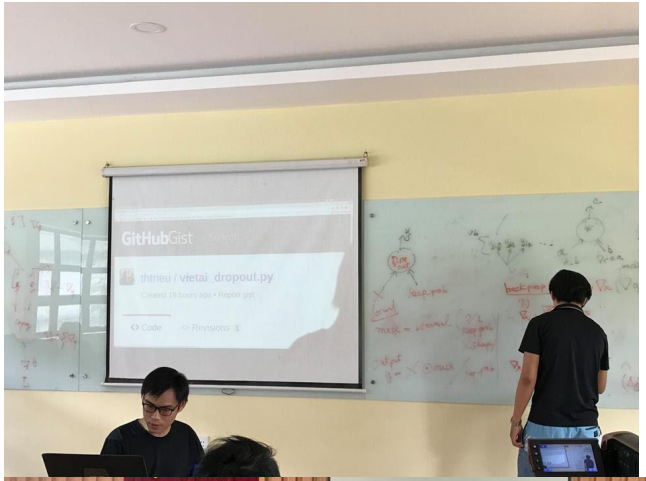
CORE PROJECTS

VietAI class:

- Cover: basic ML; DL for vision and language.
- Goal: train 120 ML engineers in Vietnam in 2018 (04 classes)

VietAI seminar:

- Paper reading / presentation with US advisors (once per month)
- Later: work on projects together (e.g., Kaggle)



CORE PROJECTS

VietAI public talks:

With VietAI speakers and guests (every 2-3 months)

Engage the community

CONNECTING TALENTS

VietAI

Seminar Advisors

Trieu Hoang, *Google Brain*

Dung Thai, *UMass*

Vu Pham, *DeepMind*

Research Mentors

Kenneth Tran, Microsoft Research

Hung Bui, *DeepMind*

Khoa Luu, *CMU*

MEET THE TEAM

VietAI

Founders

Thang Luong
Research Scientist at Google Brain

Thuc Vu
Cofounder/CEO of OhmniLabs

MEET THE TEAM

VietAI

Advisor team

Tiep Vu, UPenn

Thang Luong, Google Brain

Huyen Nguyen, Netflix

MEET THE TEAM

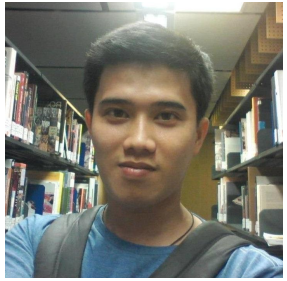
Teaching team

Tiep Nguyen, UIT
Head of Academic - VietAI

Kien Huynh,
GraphicsMiner Lab

Phat Hoang, TechBase

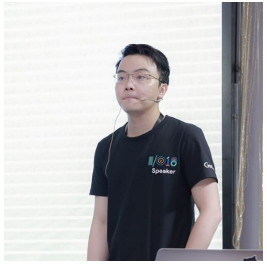
Duy Vu,
GraphicsMiner Lab



Phuong Hoang,
GraphicsMiner Lab

Son Lam Ho
University of MaryLand.

Hoa M.Le
Data Scientist at NextSmarty
University of Cambridge



Ba Ngoc
Founder
Software Architect at ProtonX

Nguyen Binh
Hanoi University of
Science and Technology

MEET THE TEAM

VietAI

Operations Team

Long Nguyen
US Lead Operations

Trang Nguyen
US Operations

Tu Nguyen
VN Operations Director

Hien Tran
VN Marketing & Administration

CONTACT DETAILS

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Tel: +84903686860

Web: www.vietai.org

Facebook: @VietAI public or #VietAI

Email: teaching@vietai.org or event@vietai.org

Thank you for your attention

“In the face of doubt, openness prevails"
- Barack Obama