

Yasuyuki**KATAOKA**

Data Scientist

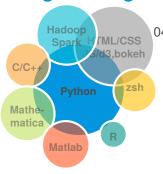
Address Mountain View, CA. USA

Tel & Skype +1 650 862 7820 kattsunn.skype

Mail yk1002jp @icloud.com @gmail.com

Web & Git ykataoka.github.io github.com/ykataoka

Programming



Summary

My objective is to create innovative IoT / Robotics applications leveraging both of my backgrounds, Machine Learning and Control Engineering. My current interest is creating machine intelligence beyond human capability by digesting big and heterogenous data.

My work experience is machine learning application R&D, e.g., vehicle analytics, wearable/IoT analytics, and NLP over 5+ years. Currently, I am leading data analytics team in NTT i3. My role ranges core product ideation, development, architecture design, data analytics, visualization, customer engagement, team building and mentoring.

I have been passionate in robotics and control engineering too. My master's research was nonlinear control theory on drone system towards fail-safe problem. Also, I developed **self-driving car** during exchange program in University of Waterloo.

Experience

09/15 - Now Data Scientist / Software Engineer

NTT Innovation Institute, Inc., Palo Alto, USA Vehicle Analytics - Leveraing time-series & multi-modal data including EMG/ECG, I created vehicle data analytic tools for IndyCar's team. The realtime prediction is designed by semi-supervised ensemble learning to enable a prediction of driver's good / bad behavior and an assessment of wearable signals. Then, the post analysis identified potential relaxation points by unsupervised learning.

Proactive Healthcare - I created proactive stroke prediction and proactive ADR prediction system by multi-modal data analytics using multiple wearable devices. These future vision resulted in 1st prize on both Mylan Hackathons held in USA and India.

04/11 - 08/15 Research Scientist

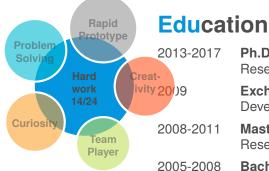
NTT R&D, Japan

Real-world Human Activity navigation - I created automatic methodology to created the knowledge base of real-world activities by NLP & Machine Learning leveraging social media and linked open data. Upon this activity knowledge base, real-world service/app recommendation is designed.

Device Orchestration System - One system is web service that classifies user's behaviour pattern during group meeting towards automatic facilitation system. Another system enables media distribution to the devices in user's room through UPnP by proxy server.

Wheel Chair Indoor Navigation System - I successfully managed system integration among 15 members team, and was core deveploer of indoor location system using BLE sensors.

Personal Skills



Ph.D.

University of Tokyo, School of Eng.

Research on Machine Learning application in NLP and image recognition.

Exchange Program University of Waterloo, Mechanical and Mechatronics Eng. Development of autonomous driving car competition for Robot Racing '09.

Master's (Valedictorian) Tokyo Institude of Technology, Mech. and Control System Eng. Research on nonlinear control theory to trirotor drone system.

Bachelor's (top 5%) Tokyo Institude of Technology, Control and System Eng. Research on experimental study on jumping-motion nonlinear control.

OS Preference MacOS ***** GNU/Linux **** Unix **** Windows ****

Languages Japanese **** English ****

Publications

Machine Learning

"Extracting and Evaluating Ontologies of Human Activities from Linked Open Data and Social Media", Journal of the Japanese Society of Artificial Intelligence (JSAI), Jan.2016 "Service Discovery Method basedon User Intent", The 2013 IEEE/WIC/ACM International Conference on Web Intelligence (WI'13), Nov.2013

Robotics

"Circle Motion Control of Trirotor UAV via DiscreteOutput Zeroing Control", The 52th IEEE Conference on Decision and Control (CDC'13), Dec.2013

"Nonlinear Control and Model Analysis of TrirotorUAV Model", The 18th International Federation of Automatic Control World Congress (IFAC'11), Aug.2011

Honors & Awards

11/2016	2nd prize (120+ participants) battery prediction using IoT data towards	
03/2016	1st prize (300+ participants) Proactive ADR prediction by smart pillbo	Milan Hackathon@Bangalore x and social listening
02/2016	1st prize (250+ participants) Milan Hackathon@Pittsuburgh Proactive stroke prediction by multiple devices	
11/2014	Excellent Research Award 5th conf. on SIG Web Intelligence and Interaction Automatic creation of real-world activity knowledge base by social media	
05/2014	Research Activity Award To the contribution in both domestic and	NTT Service Evolution Laboratories international academic community
12/2010	SIYSS 2010 as a delegate from Japan Invited to Nobel Prize events as one of the	· · · · · · · · · · · · · · · · · · ·
03/2009	Excellent Student Award To the both academic and course achiev	Tokyo Institute of technology ement during bachelor's.

Certifications

12/2016	CCP Data Scientist top 5 data science certificate, three differen		Professional Program cience projects
01/2017-	Self-Driving Car Engineer Nanodegree 9 months project - computer vision, deep I	•	Udacity. E-learning and more

Skills

frequently Use - Python, R, sklearn, tensorflow, MySQL, InfludDB, MongoDB, HiveQL, Cassandra, SPARQL, Hadoop, pyspark, Sqoop, HTML/CSS/js, d3.js, bokeh, bootstrap, grafana, mapbox

used to use - C/C++, Matlab, Mathematica, Maxima, Torch7

Other Info

what should I write more? hogehoge