arj7192@gmail.com +44 7459522574 London, UK E3 4AU

ASHISH JHA

ch.linkedin.com/in/ashishrj bitbucket.org/arj7192 github.com/arj7192

WORK EXPERIENCE

Senior Data Scientist Tractable Oct 2018 – Present

Building Car Insurance Claims Fraud Detection AI Pipeline. Tabular Claims Data + Multi Task DNN Model (PyTorch)

Senior Data Scientist Sentiance May 2016 – Aug 2018

- Leading the major data science team of 4 data scientists and 2 data engineers working on mobile sensor data.
- Constructing an xgboost + LSTM framework (in keras) for GPS based transport mode classification.
- Implemented a user timeline event predictor using deep learning CNN + LSTM (on tensorflow).
- Created data science tools using (i) spark (for spark jobs) (ii) boto3 (for AWS), (iii) javascript (for labelling data).
- Developed smart home AI based solutions for Philips Vue and Samsung SmartThings Hub.

Internship + Master Thesis

Sony Deutschland GmbH

Aug 2015 - Feb 2016

Implemented a CNN based audio event detection model with Theano on the UrbanSound dataset.

Applications Engineer

Oracle India Pvt Ltd

Jun 2013 - Aug 2014

- Developed APIs for Social Customer Service project that were included in Oracle RightNow 14.8 product release
- · Created a system-startup shell script for my team that builds the trunk, database and runs the unit-tests daily

EDUCATION

Lausanne, Switzerland

École Polytechnique Fédérale de Lausanne

Sep 2014 – Feb 2016

- M.S. in Computer Science, GPA: 5.67/6.0 (ECTS)
- Coursework: Pattern Classification and Machine Learning; Big Data; Computer Vision; Natural Language Processing; Distributed Algorithms; Distributed Information Systems; Advanced Computer Graphics

Roorkee, India

Indian Institute of Technology, Roorkee

Jul 2009 - May 2013

- B.Tech. in Electrical Engineering, CGPA: 9.14/10.0
- Coursework: Digital Image Processing; Data Structures; Programming with C++;

PROJECTS

- Human pose estimation using Deep Learning [EPFL] (2015). Used RGB images from Human80K dataset to regress 3D poses using deep convolutional neural network. Obtained state-of-the-art results. Theano, Matlab.
- Deep Learning to identify patterns in Manuscripts [EPFL] (2015). Implemented image pre-processing task for manuscript pages and extraction of words and sentences from handwritten text. OpenCV-Java, Spark.
- Travel Search Optimizer [Self] (2015 present). Finding when-to-search for best availability and prices at sites like blablacar by learning the variation patterns using neural networks. Scikit-Learn, TensorFlow, Amazon EC2.
- Implicit feedback based Recommender System [EPFL] (2014). Built a song recommender system based on user-user collaborative filtering using alternating least-squares model. Matlab.
- Person detection in Images [EPFL] (2014). Designed an SVM and a logistic regression model using HOG (Histogram of Gradients) of images as input features. Evaluated using ROC curve. Matlab

LANGUAGES AND TECHNOLOGIES

- Python (sklearn, tensorflow, keras, pandas, jupyter, flask, seaborn); C++/C; SQL; D3js; HTML; Javascript
- AWS (EC2, S3, EBS, EFS, AMI,...); Spark; Docker; Kafka; Linux; Git; PyCharm; Datadog; Jira; Confluence

ADDITIONAL EXPERIENCE AND AWARDS

- Second Prize, IBM Technology Contest 2011: For: 'Using Wearable Technology Against Rape in India'
- World finalists, Thought For Food, Berlin, 2013. Ambassador, Thought For Food, Europe, (2017-now)
- Coursera courses: Mining Massive Datasets, Machine Learning, Deep Learning, Algorithms

ANTLER INNOVATION UK LIMITED

Company No: 11707590

145, City Road, London, England, EC1V 1AZ

April 23, 2019 London, UK

Letter of Recommendation

For the attention of Tech Nation:

Regarding the application of Mr Ashish Ranjan Jha for Exceptional Talent status in the UK in the field of digital technology.

Ashish Ranjan Jha has been accepted on Antler's start-up program in London, starting in June, 10 2019.

Antler (www.antler.co) is a global start-up generator and early-stage VC that is building the next big wave of tech. With the mission to turn exceptional individuals into great founders, Antler aims to create hundreds of companies globally over the next five years. We select the world's most brilliant and determined people, help them find the right co-founder(s) and connect them to a top tier network of advisors and experts worldwide. Antler breaks the barriers to entrepreneurship by providing funding from day one and building strong teams from the ground up, while enabling our founders to rapidly launch and scale their ideas.

Our program is a unique opportunity for someone like Ashish Ranjan Jha to build an innovative and impactful business in the UK, and it is exactly people like him that allows to run our business model. Ashish Ranjan Jha is an exceptional talent that has been at the forefront of Data Science. Having 5+ years of experience in the tech sector and more recently a Senior Data Scientist— Tractable, Sentiance & Sony— he has helped them scale to millions of uses and has been instrumental in setting up Car insurance claims fraud detection by building an Al pipeline in Tractable. Over his career he has hired, mentored and managed teams to deliver exceptional results.

In summary, Ashish Ranjan Jha brings experience as a business head of having set up teams, scale up products and regional expansion from scratch, has the subject matter expertise in mobility and urban sector built through constant learning and education, and has been an exceptional leader in furthering the cause of innovative technologies in those sectors by being a spokesperson for mobility, telematics and urban innovation at large.

We highly recommend Ashish Ranjan Jha for Exceptional Talent status in the UK.

If any further clarifications are needed, I can be reached at:

Email: @antler.co

Phone:

https://www.linkedin.com/in/la

Antler Innovation UK Limited

Kvaalen Partner Date: 26-04-2019

For the attention of Tech Nation:

Regarding the application of Mr Ashish Ranjan Jha for Exceptional Talent / Exceptional Promise status in the UK in the field of digital technology.

I, have come to know the applicant since May 2016 in the capacity of data scientist.

As an emerging start-up back in 2016, Sentiance was looking to expand its data science team which at the time consisted of only 3 people. As chief data scientist at that moment, I was tasked to bring in a top talent that could help us build out a world class team

After a thorough recruitment procedure consisting of several technical tests and interviews, Ashish emerged as our top candidate out of a pool of 12 eligible candidates that were carefully selected from 180 applications. His theoretical knowledge and understanding of the field of artificial intelligence was perplexing and since then, no other candidate ever scored as high on our standardized technical tests.

Ashish was hired as machine learning expert in our data science team, and proved an invaluable coach and leader as our team grew from 3 people to 15 people over the course of that year.

During his first year at Sentiance, Ashish researched, implemented and productionized a state-of-the-art behavioral prediction algorithm based on recurrent neural networks. At a time where deep learning was still in its infancy, this contribution quickly became a USP for Sentiance, and continues to do so today, directly generating a significant portion of Sentiance's recurring revenue.

Apart from his incredible technical capabilities, Ashish quickly proved to be a talented leader as he took the lead on a big smart-home project in the IOT space together with Samsung, our main investor at that time. Ashish successfully balanced client communication with steering and coaching a team of junior data scientists and engineers with delivering state-of-the-art results in a timely and professional manner.

To capitalize on this, we decided to promote Ashish to senior data scientist after which he became responsible for hiring and coaching new Al researchers on the one hand, and for heading up our Al research team, called 'Future Years', on the other hand.

As Chief Innovation officer, I can honestly state that the combination of deep technical knowledge and leadership skills I found in Ashish, is extremely rare to find. Sentiance grew from 8 people in 1 office to 70 people with offices in 6 different countries during the time Ashish was with us.

Given his talent, Ashish has ample opportunities when it comes to the job market. However, it would be a waste to not apply that talent either at a state-of-the-art Al company like Facebook or Google, or at a newly founded start-up company where he could change the world for the better. In both cases, moving to London or the UK in general would be any Al researcher's first choice.

It is only through people like Ashish that innovation can truly take place, and any company or even country would be enriched immediately if it were able to attract this kind of talent.



Concretely, I strongly believe Ashish will directly impact the UK digital economy if he were given the chance to start a new high tech company and grow it like he grew Sentiance, from start-up to internationally recognized Al scale-up in only a few years time.

If you have any questions concerning the information contained in this letter, please contact me directly.

Sincerely,

@sentiance.com

Phone:

LinkedIn: https://www.linkedin.com/in/v

Resume: Attached



Mr Ashish Jha

PAID BY Tractable Ltd	

EMPLOYMENT DETAILS	

Pay Period: 01/02/2019 - 28/02/2019 (Tax Month 11)



Mr Ashish Jha

PAID BY Tractable Ltd	

EMPLOYMENT DETAILS	

Pay Period: 01/03/2019 - 31/03/2019 (Tax Month 12)

SERVICE AGREEMENT			2.
DAT	ED	21 June 2018	2.1
PAR	TIES		2.2
(1)	TRACTABLE LTD.		2.2
(2)	Ashish Ranjan Jha (the "Executive"). Ashish Ranjan Jha		2.3
OPE	RATIVE PROVISIONS		
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IN WITNESS whereof a duly authorised representative of the Company has executed this agreement and the Executive has executed this agreement as his Deed on the date of this agreement.

Signed and delivered by the said ASHISH RANJAN JHA as his deed in the presence of:) <u>Ashish Ranjan Jha</u> Adish Ranjan Jha (Jun 26, 2018)) Jun 26, 2018
Signed by behalf of Tractable Ltd.) Jun 26, 2018



Sony Deutschland GmbH Stuttgart Technology Cente

Mr Ashish Ranjan Jha

07.05.2015

Masters thesis

Dear Mr. Jha,

As already mentioned in my email please find enclosed your employment contract, the employee questionnaire and the checklist.

Please sign one version of the contract, complete the empoyee questionnaire and return both to me as well as the documents you have already by hand.

We are looking forward to welcoming you in Sony. Please contact me if you have any quesitons or inquiries.

Best regards,

Sony Deutschland GmbH Human Resource Services







Sony Deutschland GmbH Stuttgart Technology Center

STUDENT CONTRACT for preparation of his MASTER THESIS

Between

Sony Deutschland GmbH Stuttgart Technology Center

(named hereinafter 'Sony')

and

Mr residing at Ashish Ranjan Jha

(named hereinafter 'student')

1. Type of thesis

The student, according to the provisional subject of the Master Thesis:

"Context representation and classification ",

The contract is based on a valid residence permit which allows the student to write his thesis in Germany.

2. Duration of the thesis work

SONY

SONY

	9. Confidentiality
3. Probationary period	
4. Payment	
5. Working hours	10.Final Provisions
6. Vacation	Stuttgart, this 30.04.2015 this
7. Thesis	Sony Deutschland GmbH i. V. i. V.
8. Other agreements	Ashish Ranjan Jha

Predictive superpowers: Applying deep learning on mobile sensor data to predict human behavior - Sentiance

Predictive superpowers: Applying deep learning on mobile sensor data to predict human behavior

At Sentiance we believe that amort devices, applications and the Internet of Things should work an your behalf, conform to your decires and preempt your needs. We call it the internet of You. We are building the intelligence and contestual engine to fuel the internet of You, by analysing sensor data to recognize be havioral patterns and interpret real-time context.

Our mission is to enable companies not only to be context aware and deliver timely and highly personalized experiences (sense 6 respond) but also to be one step ahead and proactively provide relevant recommendations by predicting context and preempting needs (predict 6 engage).

By leveraging amortph one sensor data such as accelerameter, gyrascope and lacation information, we detect a person's context an different levels which we call the à Ws of context Wh Have Why. Although location (Where) and activity detection (What) enable same degree of hypertargeting, without lengeling the user's complete context including his intent and personality profile, you message maystäl lack relevance.

Where is the person coming from and where is he going? Knowing the before and after trip activities adds highly relevant contextual ineights

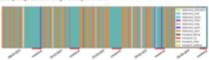
So, predictive analytics is a big thing to us. Our aim is to analyze behavioral patterns based on realtime sensor data and build predictive models that can foresee the future.

PREDICTING A SERIES OF EVENTS TO EXPLAIN INTENT

The input to our prediction model is an event time in e such as:



The figure below illustrates a simple vention of a real user's timeline with a very regular lifestyleth at serves as input to the prediction model. Note that daily harne/work commutes and weekend periods are clearly recognizable at first sight already in this case.



To foresee not only what a person will be doing, but also why he will be doing it, we need to be able to predict several events ahead. Consider the following example:



In order to explain the intent of the predicted 'car' event, our modelineeds to be able to understand what is likely to happen further in the future. For example:



Based on the current and future events, we can now safely assume that the underlying intent of the predicted 'c ar' event will in fact be 'commute to work'. So predicting further ahead in time all ows us to assign meaning to both current and predicted events. These semantics are what we call marrent examples of which are "shapping routine", "commute to work", "children drop-off", "business trip",

Our first attempt to solve the prediction problem balled down to a simple Markov Chain like approach where we madeled a sequence of events as

 $p(x_1,...,x_n) = p(x_1)p(x_2|x_1)...p(x_n|x_{n-1})$

https://www.sentiance.com/2017/04/25/predictive-analytics-mobile-sensor-data/

The problem with this approach however, is that it is limited by the Markov assumption stating that the canditional probability distribution of future states only depends on the current state. As a result, this

sentiance

Thus, the network falls to learn that a person that arrives at work by biles, is also likely to leave work by blice in the evening. To avaid this kind of behavior, we would like to condition our fiel hoods on all past observations, basically madeling the following joint probability

PLATFORM SOLUTIONS COMPANY DOCS CONSUCT

 $p(x_1, ..., x_n) = p(x_1)p(x_2|x_1)p(x_1|x_2, x_1)p(x_1|x_2, x_2, x_1)...p(x_n|x_{n-1}..., x_1)$

Simply increasing the order of the Warkov Chain or Bayesian network to achieve this would quickly lead to overfitting, instead, we want our model to automatically figure out which langer-term dependencies

This is where Long Short-Term Memory (LSTM) recurrent neural networks come in Δ great in-depth explanation of how LSTM works is available here. In short, LSTMs allow the neural network to automatically learn which lang-term patterns are important to remember, and which are all to be forgotten qui dilu-

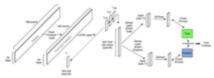
We trained an LSTM network taleam to predict both the next event type, and the duration of the current event. This allows us to determine what the penan is going to do next, and when this is likely to happen. By training a single-model based on several thousands of real-world user timelines, the network learns to encode general human behavior, thereby enforcing temporal consistency at

More over, using a beam-warch approach, popular in NLP related literature, we are able to predict complete future timelines instead of only the next event. By retaining only the topk most likely beams, we end up with several prediction by pathenes:



MODEL ARCHITECTURE AND TRAINING

The following figure illustrates our model architecture:



vector that encodes the event type (e.g. 'shop'), the day of week and time of day, and the duration of the event. A simplified example of such a feature vector is Electrated below:



an embedding that can be fed into the LSTM layer. The LSTM layer itself serves as an encoder. After ding the entire sequence of events through the layer one by one, the final LSTM state encodes both the user's general behavior and its most recent events.

The finalLSTM state is then fed into a fully connected output layer which transforms the timeline encoding into a representation that is useful for actual classification.

Two different classifiers are trained simultaneously and end-to-end:

1. Event type classifier (green box): What will the user be doing next?

2. Event duration classifier (blue box): When will the next event start?

The event type coforce: autputs 11 probabilities corresponding to the supported autput types:



The event duration classifier autputs Tiprobabilities corresponding to a bucketed representation of duration. The predicted duration is the expected duration of the current event and hence the start time of the reat event, while the predicted event type is the expected event type of the rest event.

Event durations are bucketed on a log-scale, allowing a fine-grained resolution for short events while a colorser granularity is used for larger events.

Pasing the duration estimation as a classification problem instead of a regression problem greatly simplifies the global lass function that combines the duration estimation lass and the event type las Cross-entropy is used as the cast for both classification problems, and the final lass function is defined

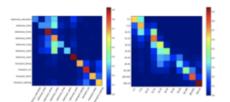
Finally, we perform data augmentation to increase the model's generalization capabilities by randomly affectling event start and end timestamps while selecting mini batches, and by adding nardom naise to the event durations.

The whole network is trained an tens of thousands of real-life timelines from users with different age, gender, demographic sand socia-economic backgrounds. This allows the network to generalize and to learn about typical human behavior

RESULTS AND EXAMPLES

BATCHM SOUTHING COMBINE DOCS CONTACT

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Clearly, some event types such an 'Hore' and 'Well' are social to predict than others, such as 'hop'. However, rote that ar ground truth itself is not bload almonutedly and dhous contain mistakes. In foot, manual inspection of the prediction results inhous comes when our versure mapping fails to literify a shop or sport toothin assessibly, while the prediction model did amountly predict the versus types. Chokvoluff for govern apportunities for inhur research, when our prediction model might all on be useful in a devoking settingto dean up were employed or actively detection errors that happen sortly on in aur machine learning platfore.

As onche that the network outcombically discovered that transports and venue viabs are very different types of events. For example, while 'validing' is sometimes mispred and as 'as' - martig because validing as solore before and other particip the aor are supply very short and are not always pided up by our SDK. He network admant never mis predicts validing as shop' or varif.

The iduration confusion matrix shows that longer duration, represented by larger budets, are classified consetly make other than sharter duration. Indeed, walking sessions of up to 10 minutes have quite a large variance and are often pradicted to be a few minutes sharter or larger than what is deserved.

An interesting documention is that jointly toining the retrock to learn about event types and event duration impressed the overall accuracy when compared to learning only about event types or event duration individually. Given the noisy ground truth data when it comes to event types, the event duration labels in serve to tribible in the learning concess and data as revalualizes.

The following video illustrates some prediction results on a real-life timeline:

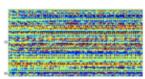
For better observation of the data, select FULL SCREBN. You can also adjust the speed of the video to your preference.

In the alturation above, the network inters that, given the user somethems, the most likely mat exerts are are realising. The right most section of the figure, containing two columns represent the different earth again [and anothe softman probability associated to them [afgit]. The finding is placed on the tegment row in the figure, and is represented as a list of \$28 events, each event having a different aslar, called in the control.

Balow the time line, are drawn the different internal state and gate values for the LSTM asile, in the form of separate panels. Each of the state and gate panels are \$250.00 motivas in the above image, where 128 is the length of the time line, and 6% is the size of an LSTM cell used in the madel.

Now let's zoom into the LSTM States plot:

https://www.sentiance.com/2017/04/25/predictive-analytics-mobile-sensor-data/



Among the 64 LSTM call units (rows of this 192064 matris) we can dearly distinguish between () that has keared to depend only on local input features, and ()) those that have learned to remember and recognize temporal pottermain the sequence of inputs. For instance if we take a disser look at row number 61 in the above matrix.

We are that the LSM call with imply transists from right to left, almost entirely retaining their state values. This implies that the se with how only learnt the feature specific to the eart they are left to and how not know to the rat any temporal patterns, be assue if they all fail their values would change as the sequence progressed in time. On the other hand, if we look at revenumber 31 in the same LSTM state which.

As the unite terral rate from right to left, their value is segre thanging in this case and an a whole, these opposes to be amount variation or are the statch of the sent in our segressor. The inference care to be drown (?) the amount variation or are the statch of the sent in our segressor. Their inference care to be drown (?) the amount variation in the LSM cell units' state values show signs of accordinations between temporal religible procedule lower similarly which institutively appears to be an explanation of a meltine religious devandational learning (first including an expension of the sent page of explaining the united size in terms of the sent the united bears in terms of page of explaining the united size in terms of the sent the united dears in terms of the state of the sent the united bears in terms of the state of the sent the united size in the sent of the united sent in the sent the united sent in the sent the united sent in the sent that the united sent the united sent the sent that the united sent the sent that the united sent the sent that the sent that

Where corrows 61 and 31 are the two extreme cases (of local and temporal patterns respectively), the behavior in the other rows is definitely somewhere in between. The obility to learn lang-term dependence of the object of the predict is wently presid to extreme even human observers would have difficulty to correctly predict the correct event.

For example, we notice dicease where the network linese that a user was going to sport and time of which the user normally does not sport, simply by recogning the sequence of events and event dustrion that the upon the sument moment. By examining the sum of purposes to behavior, and by utilized the sum of t

PREDICTING FAR AHEAD

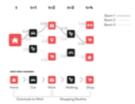
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RUSTORN SOLUTIONS COMPANY DOCS CONTACT

(e.g., cammute to wank or shopping-routine j, we need to be able to predict several events are as Mareover, we want to predict several hypothesis timelines, such that we can quickly adopt our future

predictions if the rest event turns out to be different from what we predicted.

To accomplish this, we use a beam-search approach, which traverses a search tree of prediction hypotheses and retains only those sequences that maximize the total lag likelihood:

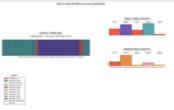


Below is a video that illustrates the beam search based predictions for a sample user.

For better observation of the data, select FULL SCREEN. You can also adjust the speed of the video to your preference.

The actual event that happened after Home, was Car, which is among the predictions suggested (i.e. Car or Walking). Given that the next event was Car, the made in our predicts that the next event is going to be Stationary, Other which an aftern before. Apaperer to be a correct prediction.

The above scenario uses mad user data and for predictions are made over the Easter-wedered timeperiod. Weekends are usually of Hitak to predict, but it is an ident thatin general, the model is alone enough at predicting the sequence of future events. It has inherwedly because the maningful transforce between stationary sewerts and transport events. And has also learn the abundant that particular eventtips usually sports over feedings means that this, have means along a but, I have even, there is a special sommatic have, which in the Easter Marchag (pholiday, in Ballyim). If we notice at the instance shows taking the model on Standays right this feed to the rend day is a such day, when it could up, in the



It makes areas for the model to think as, bacause other all, on Easter Manday, happens manky amough to be considered on anomaly. However, the good partie that on the next day, assoon as the user goes to a place which in another liver workplane, the model immediately adopts beet to predict further works in the faults are if it was not a tiglical variing day, but a weekend-inh day with shapping and other events. This displanet has (against along in the day of the reservation and processes).

Manual and the second and the second

Apart from the above weekend example, below it a video showing predictions for a weekday routine where the predictional ack more carect (as expected, because weekdays are more predictable on overcook).

For better observation of the data, select FULL SCREEN. You can also adjust the speed of the video to

CONCLUSION

Based on our state of the art machine learning and sensar fusion pipelines part 1 and part 2 Sentiance offers the mast accurate event detection and contextual zation appobilities on the market taday.

Our deep learning-based prediction pipeline adds extremely predist predictions to our solution, allowing our austraness to engage with their users at the right time. Moreover, being able to predict several events ahead, allows us to model intent, thereby explaining why auser will be performing a requirity motion.

Do you want to errich your austomer experience and deliver personalized and context-aware engagement? Reach out to us.



VOLTIJDSE ARBEIDSOVEREENKOMST VOOR BEDIENDEN VOOR ONBEPAALDE TIJD

Anhah Ranjan Sta h

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Ashal Rejuision "

Pagina 213

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Artikel 8

Artikel 13

CEO

Opgemaakt in twee originelen te Antwerpen

op 23/03/2016

Gelezen en goedgekeurd (Gelezen en goedgekeurd)

De bediende (handtekening *)

Ashish Ranjan Jha

Pagina 313

Article 1

FULL-TIME EMPLOYMENT CONTRACT FOR UNDETERMINED TERM

BETWEEN:
Sentiance NV,
Hereinafter referred to as the "employer";
AND:
Ashish Jha:
Hereinafter referred to as the "employee";
THE FOLLOWING HAS BEEN AGREED UPON:

Page 1 i 3 Page 2 i 3



Sentiance NV Korte Lozanastraat 20-28 | 2018 Antwerp | Belgium www.sentiance.com | +32 3 369 96 96 | @sentiance

Article 9





Blog About

Text To Image Generation Using Generative Adversarial Networks

Generative Adversarial Networks (GANs) are a popular variant of the generative class of neural network models. The fundamental principle behind a GAN model is a discriminator and a generator model working against each other (roughly speaking) thereby achieving the ultimate goal of fine-tuning the generator to facilitate generating meaningful, non-random data.

READ MORE

Human Pose Estimation Using Deep Learning

This was my first ever deep learning project and so I am happy to share what I did there with some key insights. This is from 2014/15, when tensorflow didn't even exist. Theano did, though.

READ MORE

Deep learning for long-term predictions

Sentiance uses machine learning to extract intelligence from smartphone sensor data such as accelerometer, gyroscope and location. This intelligence comes in the forms of sensor based activity detection, map matching, driving behavior, venue mapping and more.

READ MORE

Using Neural Nets for Audio Events Detection

Audio events detection as the name suggests is the task of detecting 1 or more audio events in an audio clip of a certain duration. In this post, we limit our discussion to 1 audio event in an audio clip of a fixed duation of 4 seconds.

https://datashines.github.io

Eye Tracking Measures for Anthropomorphism in HumanRobot Interaction

Anthropomorphism is our tendency to attribute human like characteristics to non-humans animate or inanimate. In this study, I had the task of analysing anthropomorphism via eyegaze patterns as a human observed (i) human performing a task, vs. (ii) robot performing the same task

READ MORE

Analysis and Subsequent Optimization of a Microcontroller Program

Having received the prestigious DAAD Scholarship, I got to do my Undergrad Summer Internship at OVGU, Magdeburg, Germany, on this interesting topic: Analysis and Subsequent Optimization of a Microcontroller Program for precise control of Pneumatic Valves used for Hot Wire Chemical Vapor Deposition I managed to modify an already existing program to increase the precision of the valves were actuated based on the microcontroller board multiplexed outputs.

READ MORE

Fundamentals of Finite Difference Methods

I had the opportunity to present on this topic at the 10th Indo German Winter Academy, 2011. Discrete mathematics has been one of my favorite areas of study in Mathematics. I was glad to be able to apply what I learned here later while studying Computer Graphics at EPFL.

READ MORE















2/2 https://datashines.github.io



Your MBA Application Decision

6 messages

Smartly Admissions <admissions@smart.ly> To: arj7192@gmail.com

Wed, Mar 13, 2019 at 10:35 AM





Hi Ashish.

Congratulations! On behalf of all of us at Smartly, I'm so pleased to notify you of your acceptance into the Smartly MBA - March 2019 class. We're delighted to have you join this outstanding group on a journey of learning and career advancement.

The week before classes begin you'll receive additional information from us to prepare you for the start of classes on Monday, March 25. If you have any questions before then, please let us know. Feel free to let your friends know the great news!

> I was accepted into Smartly's MBA program! 🚀 #Accepted #SmartlyMBA #DegreeBound: smart.ly







Congratulations again!

Sincerely, Matt Schenck VP of Smartly Admissions













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2019 - Finalists & Winners



THE EDTECH AWARDS 2019 | Lighting the Way

A very big congratulations to the finalists of The EdTech Awards 2019!

In an age of rapid technological change—innovators, leaders, and trendsetters are our greatest treasures. If our age is golden, they're lighting the way.

Nearly a decade in, The EdTech Awards persists in its salute. Featured are the creators and champions of the sufficiently advanced technologies that sometimes wow us, seek to help us, and ultimately move us forward.

On the cusp of this new age in learning and education, technology is the vehicle—but who are the engineers, the strategists, the pilots? Who are the dreamers that dream, the builders, inventors, and architects of our future?

From one monolithic milestone to the next, civilizations may come and go. As we build *this* one—qualifying it through careful correction, ensuring progress, making mastery and advancement real—we awaken to our full potential.

We're it, the chance is ours—and for learners, leaders, and earnest students of the future—the future is bright.

Here's to those with their shoulders to the wheel.

(Finalists listed below - winners are marked with *)

FINALISTS & WINNERS BADGES AND PRESS RELEASE AVAILABLE HERE

NOTE: Beautiful TROPHIES are available for purchase for WINNERS as well as FINALISTS.

1::: THE EDTECH COOL TOOL AWARDS



FINALISTS:

higher education solution

	APLnextED
	Blackbullion
	Campus Management-CampusNexus Platform
	Gradescope
	iClicker
	Jenzabar One
	Middle Atlantic Products L7 Series Lectern
	Smartly*
ĺ	Spring Theory
	Turning Point web

NOTE:

(Finalists listed above - winners are marked with*)



Repositories

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aarctern-inter_com	Untitled project	AARCTERN-ML	2018-04-12	
aarctern-web		Ankit Agarwal	2015-12-18	<u> </u>
арі	Untitled project	AARCTERN-ML	2018-04-12	
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semantic_search_m	semantic_search	datashines	2018-12-13	<u> </u>
speech_to_text_to_i	v2i	ashishsolo	2019-01-13	
testService	Untitled project	AARCTERN-ML	2017-12-08	
text_to_image_flowers	v2i	ashishsolo	2019-01-13	

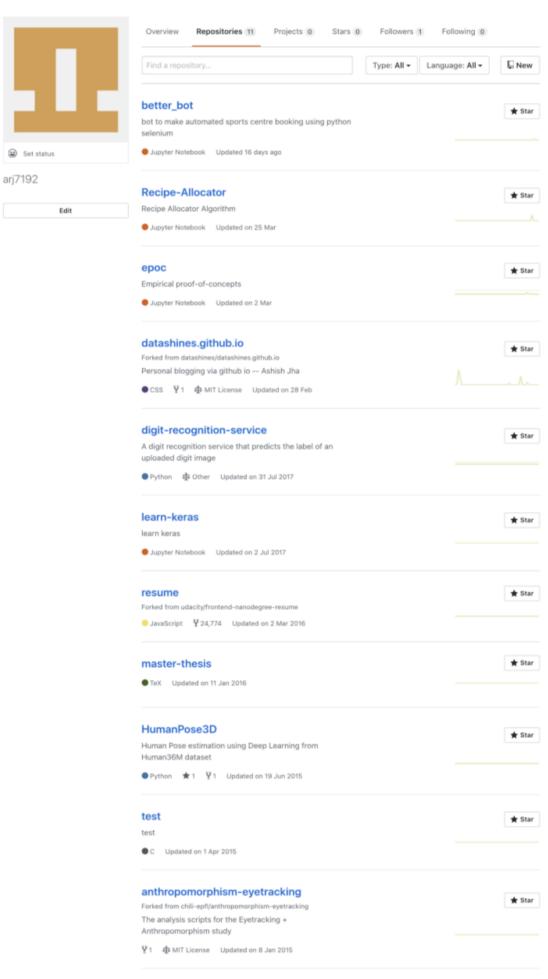
24/04/2019 Overview — Bitbucket



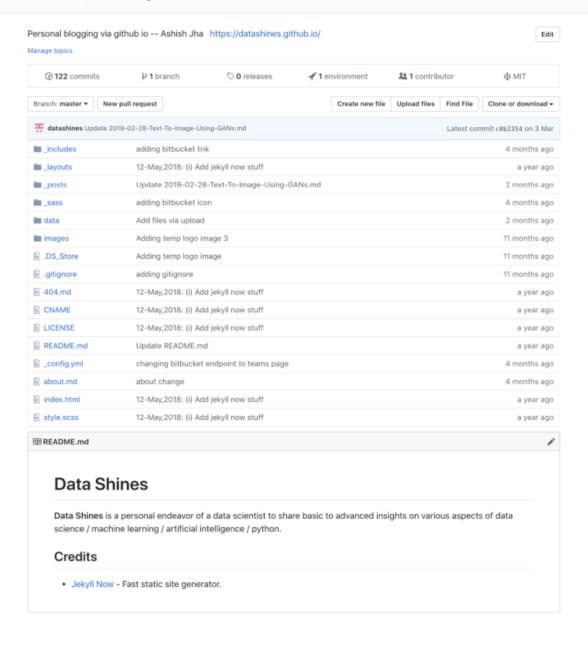
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(/>	speech_to_text_to_image v2i / ashishsolo - 2019-01-13			
(/)	text_to_image_flowers v2i / ashishsolo - 2019-01-13			
(/>	ios_app v2i / ashishsolo - 2019-01-13			
•	semantic_search_main semantic_search / datashines - 2018-12	Webapp with semantic search on a document funtionality		
(flask hackDaemon2 - 2018-04-12			
•	bodhi_ml bodhi / nlarjak - 2018-04-12	Repo has internal apis to take data from app, store it in db. 2. ML codes to process data 3. Web apis then to		
(/>	bitflip_pilot_chrome bitflip / bitwick - 2018-04-12			
(-)	api Untitled project / AARCTERN-ML - 2018	Handling API calls.		
	aarctern-inter_commute-cars Untitled project / AARCTERN-ML - 2018	Data extraction, pre-processing and machine learning tool-kits for on-road commute between cities.		
	aarctern-inter_commute-buses Untitled project / AARCTERN-ML - 2018	Repository for bus websites		

View all repositories



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