



AUTO Insurance Innovation Using AI

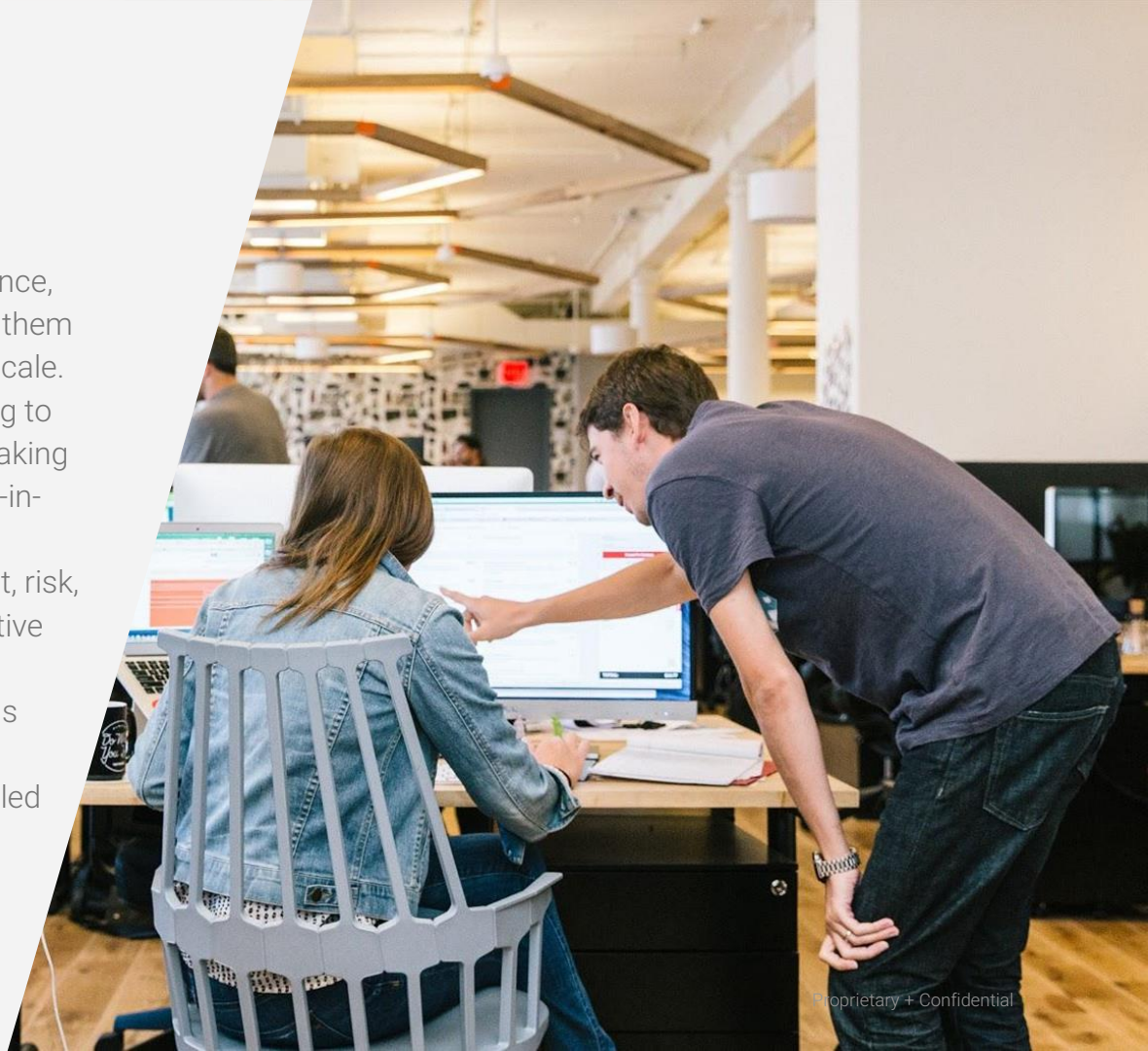
Digital.Efficient.Experience



WELCOME

Artivatic is enterprise AI platform for Insurance, Healthcare & Financial organization to help them build intelligent solutions seamlessly with scale. Enables organizations from customer facing to operational efficiency to risk & decisions making with use of 40+ APIs, 10+ Solutions as plug-in-play, SaaS & On-premise Integration. DIY processes to ensure reducing time, cost, risk, fraud, errors & improving efficiency, alternative data, in-depth 360 profiling, automated decisioning, underwriting intelligence, claims management & more. Founded in early 2017, is pioneer in AI enabled technology, products & solutions.

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Proprietary + Confidential

Products & Solutions Suite for Auto Insurance

01 NEW POLICY BUYING

- KYC & Document Extraction [Online & offline]
- Signature , Video & Selfie
- Verification & Matching
- AML

- 60 Seconds Onboarding
- Automated document check & processing

02 OPERATIONAL EXPERIENCE

- Mobile based vehicle image capturing
- Vehicle video based analysis
- IoT Device based data streaming
- Odometer and other data capture in real time

- Image control at source itself using mobile camera
- 360 Video capturing & Auto Analysis

03 ASSESSMENTS

- Part & Damage Intensity Detection
- Vehicle Image Fraud
- Claims Price estimation
- Dynamic Pricing Fraud
- Repair Invoice Processing

- Realtime part & damage detection
- Fraud Detection
- Price Estimation

04 Renewals

- Insurance renewals based on vehicle images
- Identification of damaged parts
- Quoting right price based on past learning
- Digital Renewals Processing
- Usages Based Insurance

- Gap Insurance & New renewals
- Assessment of Pre-damage for new premium

01

Digital Onboarding

Enable your businesses with digital onboarding in real time. Reduce operation cost, processing time and risk with use of technology.

ONBOARDING KYC PROCESS

60 Second Onboarding.

Solution:

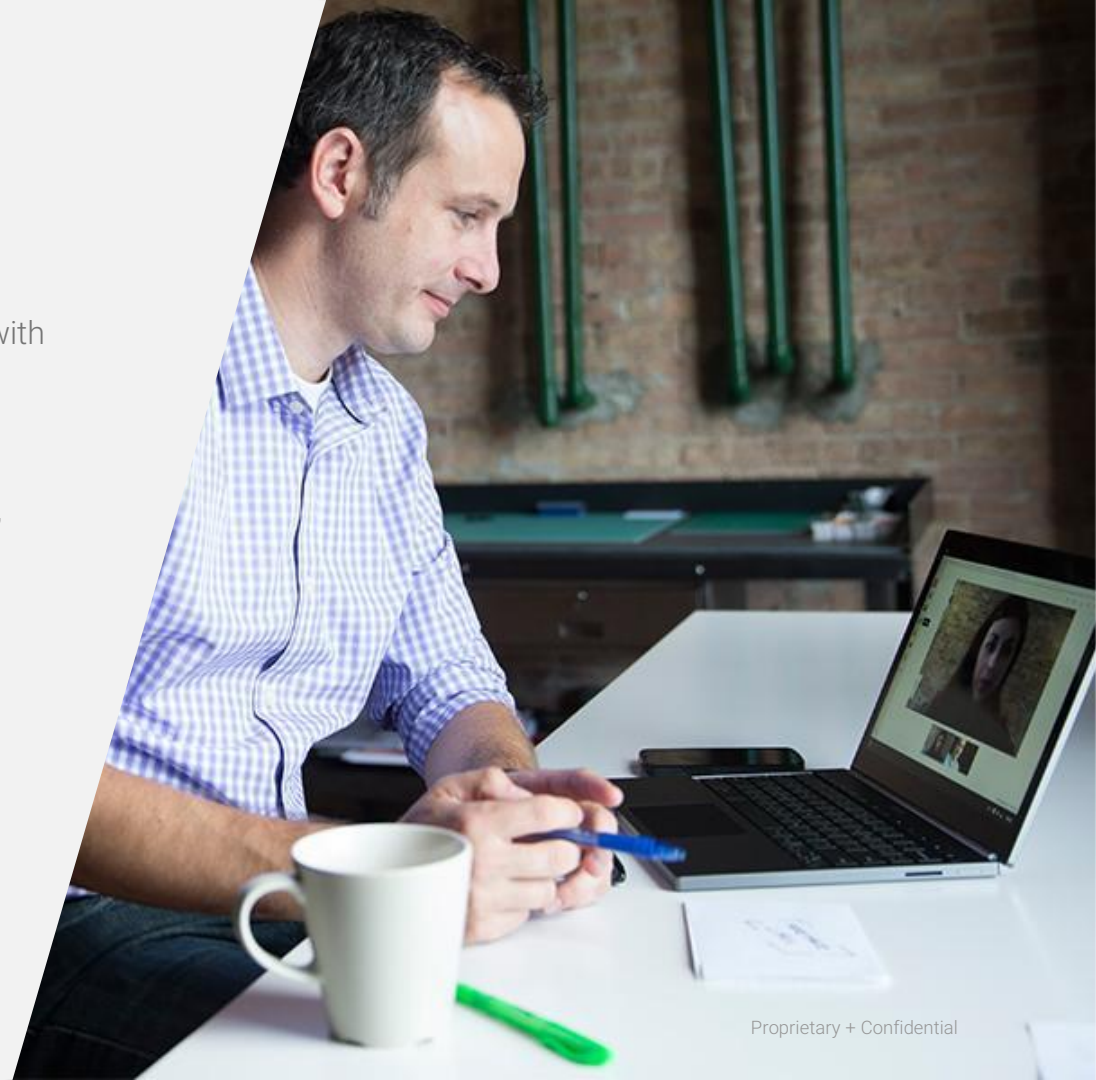
Digital Onboarding solution during buying policy with automated process.

Benefits:

Align the digital process to reduce operation cost, improve efficiency, reduce errors and increase conversion.

Process:

- Use APIs on cloud or on-premise and customize to the need of business
- KYC, Signature, Video Selfie, Documents, Vehicles Images and other data



Artivatic's Onboarding solutions resulted in significant business outcome.

- Increased business efficiency to their business team as well as their agents
- Reduce their operation cost significantly
- Enhanced quality of data processes
- Enabled under 3-5 mins policy decisions
- Reduced multiple check points
- Increased customer DIY process with less time
- Reduced data errors, enhanced verifications in real time
- Reduced processing time with quality

02

Experience at Scale.

Using Artivatic's technology enabling insurance businesses to have customer, agent and business experience in real time with innovative solutions.

DIGITAL FOCUSED EXPERIENCE.

Real Time Digital Process for Auto Insurance.

Solution:

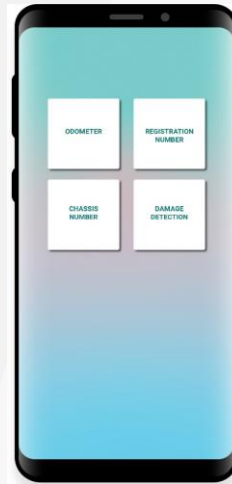
Enabling customer, agents & businesses with improved experience for auto insurance policy & claims decision.

Benefits:

- Real time business processes with reduced time & increase in efficiency.
- Identify part, damage, documents data during on-boarding hassle free.

>50% more efficient data & reduction in errors. Available as API/SDKs

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Use of mobile to enable document extraction, KYC, Registration number, chassis number, odometer data and part detection in real time during new policy, renewals as well as during claims assessment.

**BENEFITS OF DIGITAL
PROCESS.**

Enabling 30% more customers satisfaction.

Artivatic's digital process experience solution enables insurance businesses to ensure that from onboarding to final decision process is efficient, seamless and error free.

Voice enabled process can also be integrated in the same solution to make it more local focused.

Essence:

Many customers admit that better experience increase adoption of products or solutions easier. .



Parts & Damage Detection

Solution:

Using deeplearning technology find auto parts in the uploaded images or videos. Technology further finds damage intensity based on the identified parts.

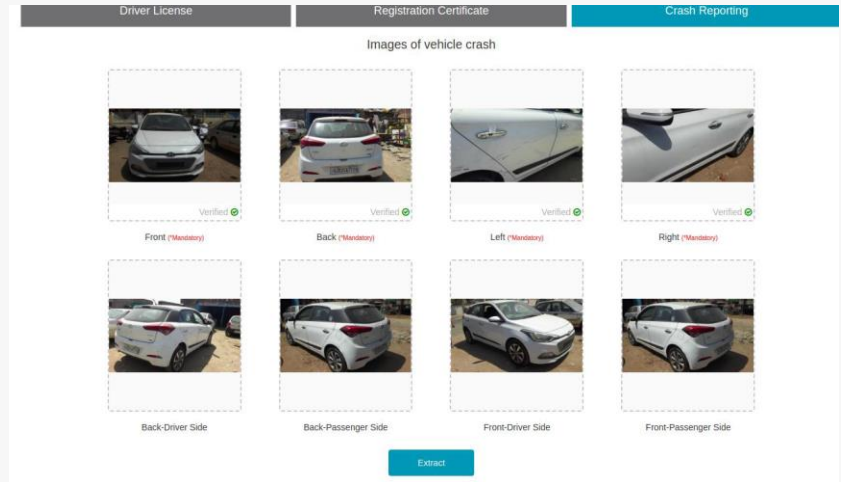
Benefits:

- Enables agents or customers to directly upload images or videos to asses claims under 180 seconds
- Reduces time & operational cost significantly
- Reduces fraud & risk propensity

Mobile/Video/Image Based System:

Available to be used via mobile phone, website based and device based both for video & images.

Damage detection and part detection using images or videos.



Vehicle crash Report

View images ✔ No Fraud View Damage Images

Part	Damage Type	Confidence Score	View Image
Window	Replacement	83.58 %	View Image
	Non Damage	88.11 %	View Image
	Non Damage	91.66 %	View Image
	Non Damage	90.92 %	View Image
	Non Damage	76.78 %	View Image
	Non Damage	77.95 %	View Image
	Non Damage	79.96 %	View Image
	Non Damage	76.28 %	View Image

CLAIMS PRICE ESTIMATION IN REAL TIME

Claims Price Estimation

Solution:

Using technology, based on identified parts & damage intensity calculating claims in real time. Using pricing & location bases historical data, predictive analysis to reduce fraud & risk in pricing.

Benefits:

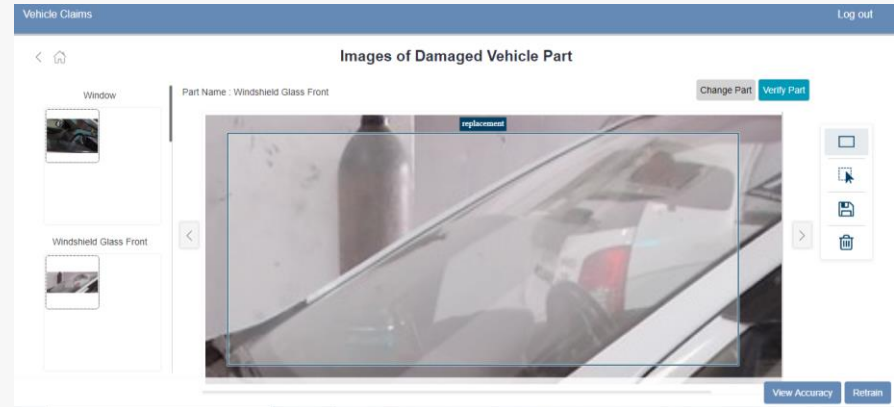
- Finds part based claims pricing for replacement, repair or cleaning
- Edit parts or damage intensity to further learning and update pricing in real time
- Reduce over charging for part pricing based on historical learning

Dynamic Pricing: Historical learning enables to control pricing and reduce fraud.

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Automated estimation of claims price based on historical claims data.

Part	Damage Type	Confidence Score	Price
Window	Replacement	83.58 %	Rs- 308.9
	Non Damage	88.11 %	Rs- 0
	Non Damage	91.66 %	Rs- 0
	Non Damage	90.92 %	Rs- 0
	Non Damage	76.78 %	Rs- 0
	Non Damage	77.95 %	Rs- 0
	Non Damage	79.95 %	Rs- 0
	Non Damage	78.28 %	Rs- 0
	Non Damage	87.13 %	Rs- 0
	Non Damage	86.60 %	Rs- 0
Windshield Glass Front	Replacement	83.94 %	Rs- 2350
	Non Damage	75.60 %	Rs- 0



Digital Process. Efficient Systems.

Enabling auto insurance businesses to be smarter for policy decisions, profiling & claims processing in real time.

Scale is very high due to technology enabled platform and access to various technology systems like mobile phone. Increase ROI by Multifoods with reducing risk, cost and time.

For Customer:

Customer now will have direct claims system with DIY (Do it yourself) approach to get claims under 180 seconds.

Here are some other use Cases.



Image based fraud detection system for auto-claims processing



Video based system to reduce fraud cases



Intelligently learning over time to provide personalized outcome with reduced cost.

Clients. Use cases

Artivatic's system is utilized with many clients where it enables them to optimize their business process and enhance customer outcome.

Case studies serve as real-world proof of the success and benefits customers have experienced through Artivatic's solutions.

Many more POCs are going on to implement the systems to reduce their business processes.

Realtime identification of parts and vehicle data for smart claims processing.

Invoice processing for repair bills to automate payments.

Automated Repair Bill Payments using part detection and invoices

04

Fraud Intelligence in Vehicle Insurance

Using historical data and vehicle images, some of the fraud can be countered using technology.

Vehicle Fraud

Artivatic's image recognition, ml models will help in identifying fraud in multiple ways.

Finding images of different cars, colours with help of video at the source will reduce the fraud.

Some are developed like colours, video, location but others are in process.

- License Plate verification
- Chassis plate verification
- Checking for a different model (swift and Verna in the same case)
- Color matching of the car (Red and the white color car in the same case)
- Claiming for someone's car accident by altering the number/license plate.
- Claiming for internal parts which cannot be captured by the camera even if they are not damaged (Fraud with help of garage owner).
- Excessive labor amount.
- Excessive denting charge.
- Replacing part unnecessarily.
- If person A is driving person B's car in a drugged condition.

Ready

Colour, Different car, Video,
License Plate

6 Months

Internal Parts, Labour, Denting
charges, Part Replacement

12 Months

Point A to Point B
drugged condition,
Car Model

Artivatic's solutions are customized to business need.

- Technology based solutions for auto insurance to scale
- Customize solutions to the customer centric need and business based process efficiency
- Use through SaaS & On-premise in any environment
- Fraud detection during similar images or other images
- Location based risk intelligence for claims processing

05

Drive demand and renewals.

Enable businesses to improve demand for renewals through use of technology.

Profiling Customers

Solution:

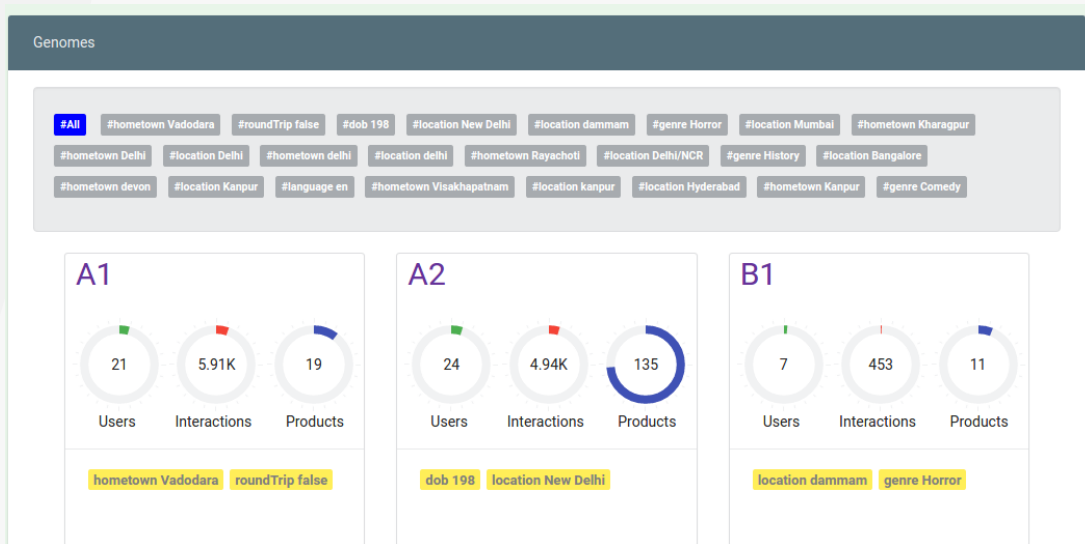
Based on CRM Data building 360 profiling of customers including digital footprints to find if they need to buy new insurance.

Benefits:

Helps businesses to understand customers in depth and sell them new policies.

For Customers:

Profiling customers based on past data, payments, policies etc. to make sure for renewals of policies to reduce their policy costs.



USAGES BASED INSURANCE

USAGES BASED INSURANCE

Solution:

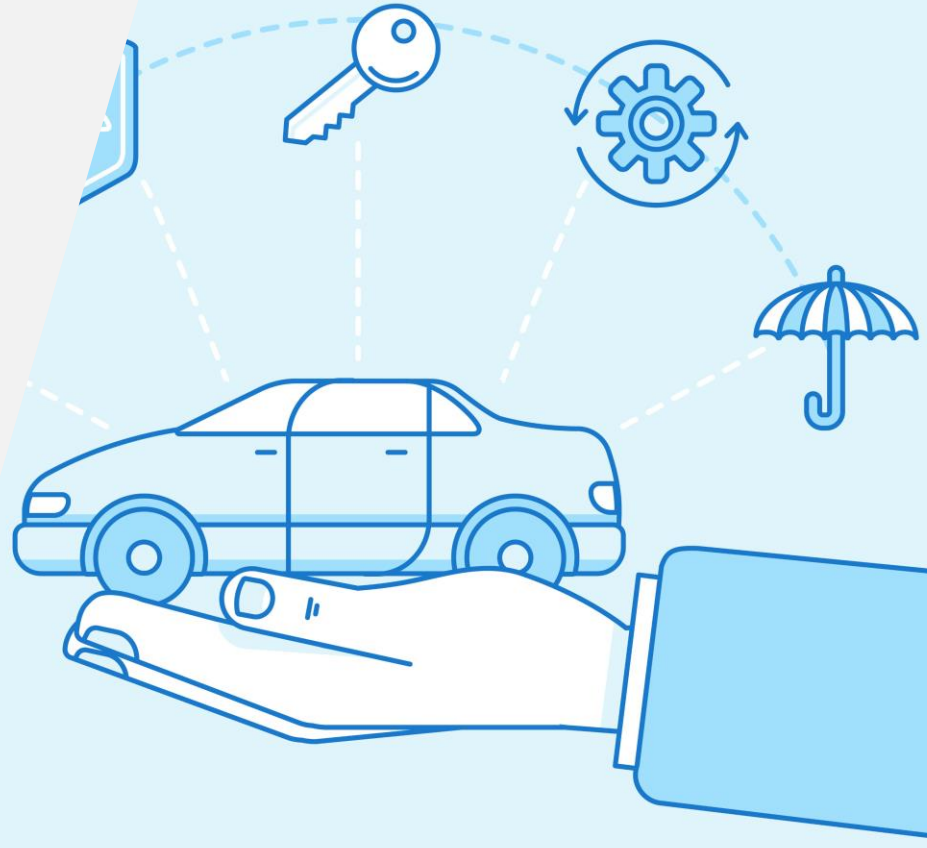
Using telematics data, driver behaviour, location data, vehicle diagnostics, Road Conditions and external data enable pay per use insurance.

Benefits:

Enabling customers to pay for the way they drive vehicles and other data.
Reduces friction and increase efficiency.

For Customers

Enables customer for planned driving and reduce fuel cost & proper claims processing with lower insurance premium..



USAGES BASED INSURANCE

Pay for Premium as you Drive.

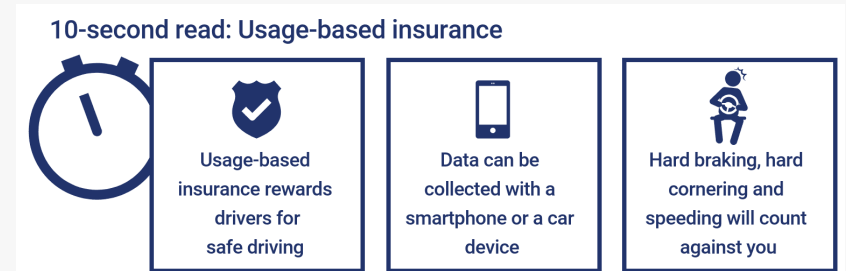
Process:

APIs can be connected with OEM data or insurance companies having sensor, odometer & other past data with combination of third party APIs, to develop risk scoring, patterns and more to provide insurance premium.

Claims settlement in such cases also improves with reduction in fraud as well customer satisfaction. Business revenue increased as well with reduced operational cost.

Benefits:

Both business & customers gets benefits.



*This Application is contingent on data availability from multiple sources. This use case in WIP and hence not available for demo.

Use More. Pay More.

- Renewals are process based on past historical insights
- Uses multiple type of data to ensure in-depth patterns and reduction in risk
- Scales businesses and reduces customer burden

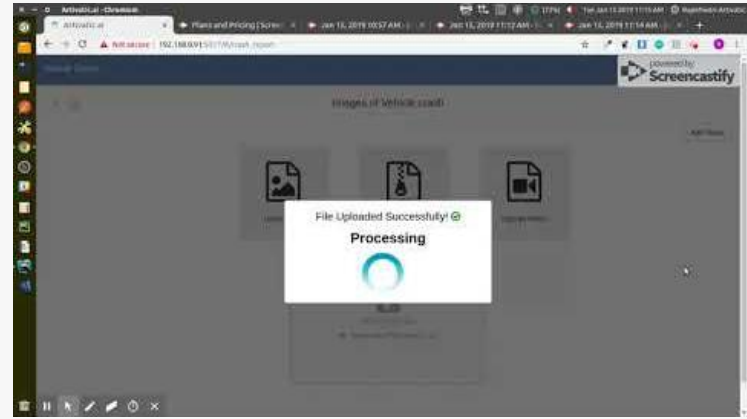
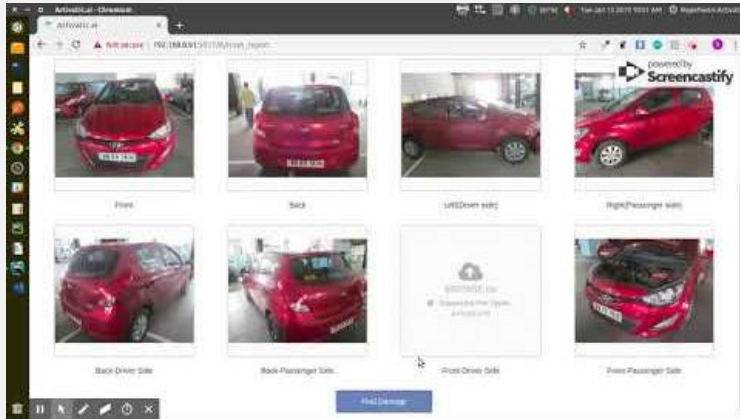
06

Appendix.

Further information to showcase if needed for annotation, KYC, Video.

Vehicle Claims Product Video

Single Image Based & Folder Based Damage Detection



DIGITAL ONBOARDING PRODUCT SHOWCASE

KYC, Signature, Photo, Vehicle Details & Documents

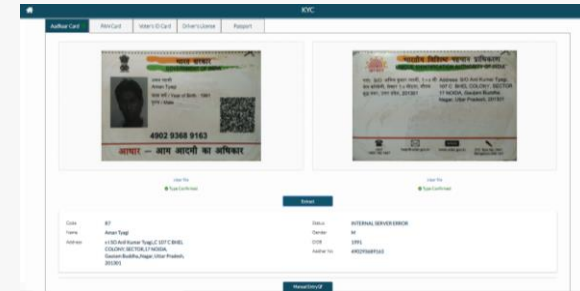
What:

- Up to 90% reduction in time processing
- Up to 30% reduction in operational process
- Mobile based digital processing with no traditional system
- Up to 20% in cost reduction
- Up to 30% increase in customer satisfaction
- Reducing errors & risk
- No Manual intervention while buying policy with limited data

Next steps:

Available in form of APIs /SDKs for Website, Mobile & Devices . Takes 6-8 takes for Integration & Production.

KYC Extraction, Matching & Verification in real time.



Signature verification & Facial Recognition during document upload or taking photo itself.

Enable fully digital process where customer can have DIY process to get policy by itself.



Video based KYC verification and required documents matching for policy buying.

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Annotating Vehicle Images for Claims Process

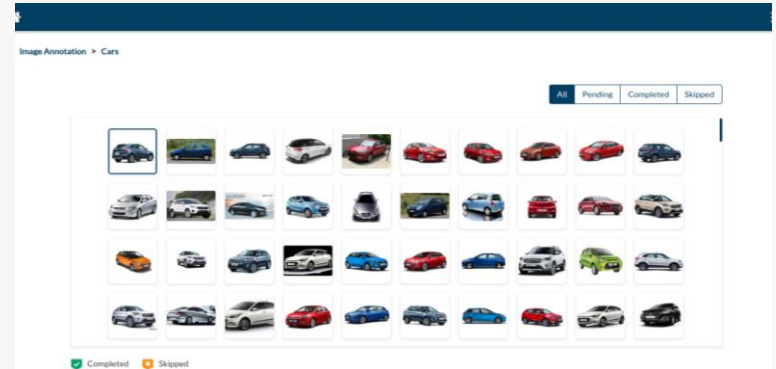
Solution:

For Auto Insurance companies, there are many vehicles and hence it is important to keep training multiple vehicles images to ensure better part, damage detection accuracy. SaaS based tool to annotate images in-house.

Benefits:

- In-house data annotation system to add more & more images
- Improves accuracy based on data trained correctly
- In future, new models can be added effortlessly with no extra cost
- Edit & enable system to learn new data in real time

Upload multiple vehicle images for training for vehicle claims.



Annotated Images for vehicle for part, damage detection.

REPAIR INVOICE EXTRACTION AND AUTOMATED PAYMENT PROCESSING FOR CLAIMS

Repair Invoice Processing

Solution:

Artivatic's OCR/ICR engine to process various repair invoice to reduce risk, increase efficiency, reduce operation cost and enable for automated payments for claims.

Benefits:

- Extracting important data from invoices and validate with claims system
- Mapping with correct price and enable automated payment
- Keep historical part & damage record to reduce pricing risk & fraud in future.

Enables businesses to completely automate the claims processing from customer/agent data entry to final pay-out settlement.

Automated payments for claims based on repair invoice with part matching & vendor matching.

Invoice Reader

General Information

Bill To: ICICI Lombard General Insurance Company LimitedGround, First and Second Floor, ICICI Lombard House,MumbaiMH, 400025
 Date_of_registration: 11/30/2014
 Deductibles: Rs. 2000
 Engine_no: 64282641629883
 Invoice_date: 24 May-2018
 Invoice_no: AH111819N500747
 Mileage: 39151
 Model_no: GL350CDI
 Net_Invoice_Value: Rs. 81993.63
 Place_of_supply: ICICI Lombard General Insurance Company LimitedGround, First and Second Floor, ICICI Lombard House,MumbaiMH,400025
 Place_of_delivery: MUMBAI
 BROTHERSCHANGANJANAKAN,MH,422001
 GSTIN:MH01A1414

Dealer : Auto Hanger Pvt Ltd

Details :

Invoice Summary

CGST	IGST	Labor Charges	Parts Charges	SGST	Sublet Charges	UTGST
6.403.82	0.00	9975.00	61211.00	6.403.82	0.00	0.00

Table 1

CGST/Amount	CGST/Rate	Description of Goods/Services	HSN/SAC Code	IGST/Amount	IGST/Rate	Part/Operation Code	Quantity	SGST/Amount	SGST/Rate	Taxable Amount	Total Amount	Total Tax	UOM	UTGST/Amount	UTGST/Rate
0.00		Sparkle Treatment	9987	0.00		Sparkle Treatment	1	0.00		0.00	0.00	0.00	NOS	0.00	

Table 2

Amount	CGST/Amount	CGST/Rate	Description of Goods/Services	Discount	IGST/Amount	IGST/Rate	Operation Code	Quantity	SAC Code	SGST/Amount	SGST/Rate	Taxable Amount	Total Amount	Total Tax	UOM	UTGST/Amount	UTGST/Rate
8825	883.25	9	FRONT WINDSHIELDGLASS REPLACE	0	0.00	0	07-1030-01	0	9987	883.25	9	8825.00	10531.50	1.806.50	NOS	0.00	0
1050	94.50	9	ELECTRICAL SYSTEMCHECKFINDINGS_____	0	0.00	0	54-1010-01	0	9987	94.50	9	1050.00	1239.00	189.00	NOS	0.00	0

Document Parser

Travel Real-Time Application 2 / 6

Invoice cum Premium Receipt

INVOICE DETAILS

Invoice Number: 2017-V48633550-FPV
 Policy Number: 2017-V48633550-FPV
 Period of Insurance: From 06/02/2017 To Midnight of 05/02/2018
 Intermediary Name & Code: Policybazaar Insurance Web Aggregator Private Limited / 60047599
 Gross Premium: 3,088.00
 Add - Service Tax: 432.32
 Add - Swachh Bharat Cess: 15.44
 Add - Krishi Kalyan Cess: 15.44
 Total: 3,551.00
 Policy No: 2017-V48633550-FPV
 Insured: Mr. ANANTJ TINEKAR
 Covernote No: - Dated: Zone: A
 Intermediary Name/Code: Policybazaar Insurance Web Aggregator Private Limited / 60047599
 Insured Name: ANANTJ TINEKAR
 Registration address of the Insured: B-207, GREEN VIEW APTS,NO 2, BASHAL OFF, L TRGAD, BORIVALI (WEST), Mumbai, Maharashtra, 400091

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Thank you.

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