

AxcelerateAl

Leverage state-of-the-art AI technologies to drive your business

Do you want to empower your business with Al-driven solutions?

We **build** custom Al solutions tuned for your business.

Our Industries



Industry 4.0

- Industrial Automation
- Predictive Maintenance
- IoT and Big Data Solutions



Media

- Brand Exposure Detector
- Recommendation Engines
- Best Matching Influencer Insight



Accounts & Finance

- Loan/Contract Credit Approvals
- Financial Product Recommendation
- Client-facing Chatbots



Wealth

- Al based Portfolio Management •
- Intelligent Trading Bots
- Risk Assessments and Correlations



Content Creation

- Video summarisation
- Creating content with help of AI



Cyber Security

 Intrusion Detection System



Telecom

- Individualized Packages
- Predictive Maintenance
- Load Balancing System
- Self-healing Network



Healthcare

- Disease Prediction
- Anomaly Detection CV
- Test Recommendations



Utilities

- Smart Power Grids
- Appliance Monitoring
- Utility Optimization



E-commerce

- Recommendation Engine
- No-code APIs

Our Domains



Computer Vision

Image classification and tagging
Image segmentation
Object detection and tracking
Video classification
Optical character recognition (OCR)
Image enhancement
Facial recognition and modelling
Pose estimation
Image-to-image translation
Visual question answering
Image captioning
Anomaly detection
Activity recognition
Image retrieval
Style transfer



Natural Language Processing

Text classification and tagging
Named entity recognition (NER)
Dependency parsing
Information retrieval and extraction
Invoice reader
Translation
Sentiment analysis
Semantic textual similarity
Part-of-speech tagging
Abuse detection
Document classification
Document parsing
Text clustering
Intent detection
Paraphrasing



Recommender Engines

Sequential recommendation
Session-based recommendation
Knowledge-aware recommendation
Collaborative filtering
Content-based filtering
Demographic-based filtering
Knowledge-based systems
Hybrid recommender systems
Convolutional matrix factorization (CMF)
Deep matrix factorization (DMF)
Reinforcement learning-based recommenders

Our Domains



Generative Models (Computer Vision)

Stable diffusion
ControlNet
Dreambooth
Style transfer
Scene generation
Video generation
Text to image generation
Image inpainting
Face generation
3d reconstruction



Generative Models (Natural Language Processing)

Text generation
Conversational AI
Question answering
Code generation
Prompt engineering
Large language models
GPT, ChatGPT, GPT-NeoX
AutoGPT, LangChains
LLaMA, LlamaIndex



Predictive Forecasting

Time series analysis
Time series classification
Predictive maintenance
Regression analysis
ARIMA, SARIMA
Imputation
Activity prediction
Time series anomaly detection
Time series clustering
Load and traffic monitoring
Time-to-event prediction
Trajectory modeling

Our Machine Learning Tech Stack









PropTech

Selected Case Studies



Object Removal

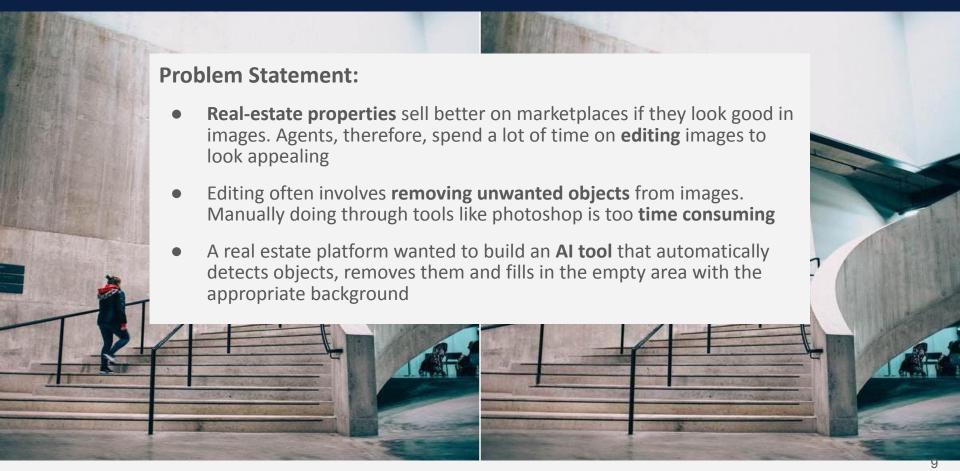


Virtual Staging



Property Description
Generator

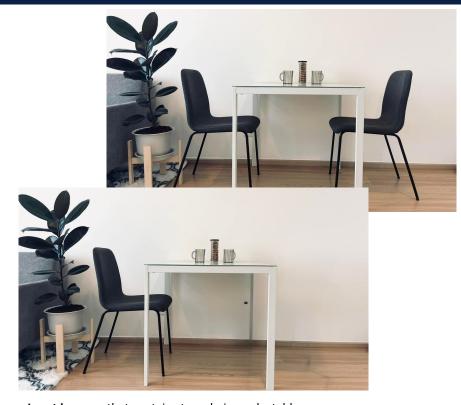
Object Removal



Object Removal

Salient Features:

- State-of-the-art object detection models for detecting all objects that appear in the image
- Faithful reconstruction of the background behind the object removed
- The AI system preserves visual coherency
- Additionally the AI system preserves fine details and textures in the image
- Near real-time running times

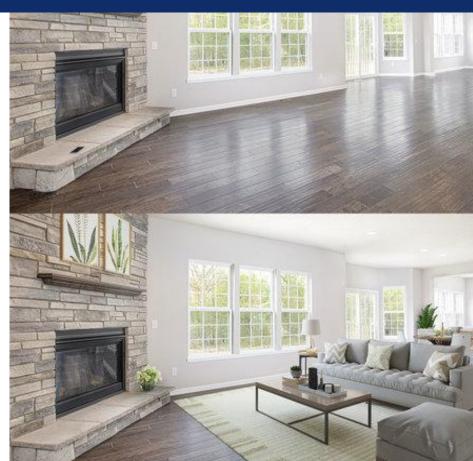


Input image - that contains two chairs and a table. **Output image** - the object removal system removes one chair and faithfully replaces it with the background

Virtual Staging

Problem Statement:

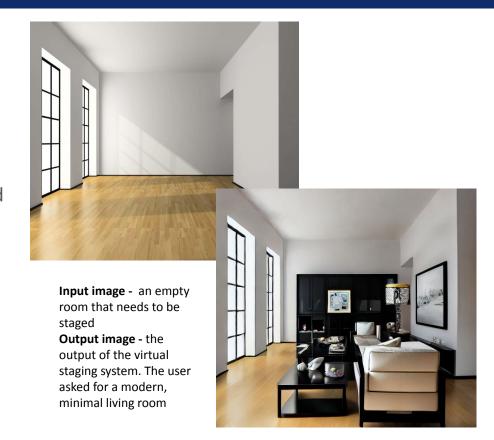
- Interior designers virtually stage images to showcase different design themes to their clients
- Virtually staging through image editing softwares like Photoshop is time consuming
- A real estate platform wanted to build an Al system that can automatically stage empty rooms
- We built a system using generative AI technologies
 that is able to virtually stage rooms in accordance
 with user preferences such as design theme,
 furniture to add, flooring and ceiling type



Virtual Staging

Salient Features:

- Photo-realistic and appealing outputs
- Allows users to customise designs by selecting from a wide variety of room types, design themes, flooring and ceiling types and furniture to add
- Faithfully preserve the structure and layout of the room
- State-of-the-art **generative AI** technologies
- Near real-time running times



Property Description Generator

Problem Statement:

- Real estate platforms require property sellers to upload descriptions of their properties
- Writing captivating property descriptions is hard
- A real estate platform wanted to make this easier for their users by building and AI-based copywriting engine that can automatically generate descriptions from property images
- We built an AI-based system that first extracts different attributes of a property from its images and then writes a captivating description



Property Description Generator

Our Solution:

- A user uploads images of a property (e.g., images of rooms, front, backyard etc.)
- Several computer vision models extract different types of information from the images such as the architecture style, number of rooms and the amenities available
- The extracted information is fed to ChatGPT which then writes a description for the property
- Efficient prompt engineering of ChatGPT ensures that it produces accurate and engaging property descriptions

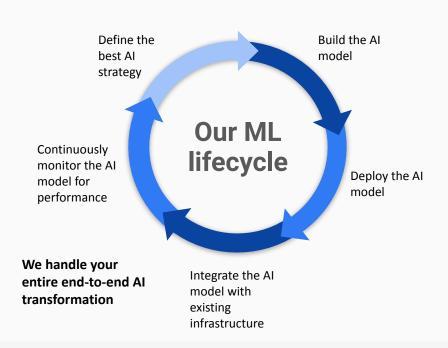




Company Profile

About Us

We empower organisations with state-of-the-art artificial intelligence technologies which can significantly reduce internal operating costs and add more value to products and services





Our Clients

We have helped dozens of organisations including











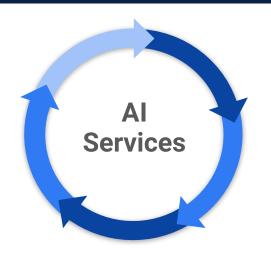






embrace the AI revolution

Artificial Intelligence Capabilities



3+ Years

of experience in helping businesses **axcelerate** their Al transformations



Computer Vision



Generative Models



Recommender Engines



Natural Language Processing



Predictive Forecasting



Machine Learning Operations (MLOps)



Let's Connect



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