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UNLOCK THE POWER OF

AI & ML

for Your Business





Over 13 Years of Delivering Digital Excellence



Public Listed*
BSE, NSE



2012+
Established



750+
In-house
professionals



50+
Technologies



250+
Global Clients



50+
Industry Awards



02
Development
Centers



**ISO 9001 &
ISO 27001**
Certified



SOC 2 Type II
Certified



Salesforce
Partner



Adobe
Partner



Microsoft
Partner

* DRHP Filed

Trusted by **Industry Leaders**



REUTERS



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Mphasis
The Next Applied

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Stoneacre
Motor Group

CONDÉ NAST

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How AI/ML Create Value for Your Business



Process
Automation



Data-Driven
Decision Making



Personalized
Customer Experiences



Predictive
Analytics



Enhanced
Operational Efficiency



Real-Time
Insights



Cost
Optimization



Improved
Scalability and Flexibility



Competitive
Advantage



Innovation
& Growth Opportunities

Top 5 AI/ML Challenges Businesses Face



Data Quality & Availability

Ensuring accurate, high-quality data for reliable insights.



System Integration

Seamlessly connecting AI models with legacy systems.



Privacy and Compliance

Protecting data and meeting regulatory requirements (e.g., GDPR).



Talent & Expertise

Bridging the AI/ML skill gap with experienced specialists.



Scalability

Scaling AI to handle large data volumes and complex tasks.

Why **CN**?



Proven track record
across diverse
industries

Experienced team
of AI/ML experts



Rapid implementation
as fast as 15 days for
some projects

Customized solutions
tailored to your specific
business challenges.



Our Service Offerings & Capabilities



Data Engineering

AI-powered Data Engineering services for efficient data integration, transformation, and analytics.



Computer Vision

AI-powered Computer Vision enables machines to understand and analyze visual data.



Recommendation Engine

AI-powered Recommendation Engine for personalized content and product suggestions.



ML Ops

ML Ops services for streamlined model deployment, monitoring, and scalability.



Generative AI

Generative AI creates new content, such as text, images, and music, based on input data and patterns.



Audio AI

Audio AI uses AI to analyze and enhance audio content.



Natural Language Processing

NLP enables machines to understand, interpret, and generate human language.



Data Science

AI-driven Data Science unlocks insights from data for smarter decisions.

Current Trends in AI/ML Adoption **Across Industries**



Retail and E-commerce

- Personalized recommendations,
- Demand forecasting,
- AI-powered chatbots



Healthcare

- AI in diagnostics,
- Predictive analytics,
- Virtual health assistants.



Finance & Banking

- Fraud detection,
- Credit scoring,
- Algorithmic trading,
- Customer chatbots.



Manufacturing

- Predictive maintenance,
- Quality assurance,
- Process optimization.



Travel and Hospitality

- Smart booking systems,
- Dynamic pricing,
- Virtual travel assistants.



Supply Chain Management

- Route optimization,
- Demand forecasting,
- Efficient inventory management

Our Tech Stack

Machine Learning Frameworks



TensorFlow



PyTorch



Scikit-learn

Natural Language Processing



BERT



GPT-3.5+



LangChain

Computer Vision



OpenCV



YOLOv7



Amazon Rekognition

Cloud Platforms



AWS



Azure



OCP



GCP

Data Processing



Apache Spark



Hadoop



Pandas



SQL



Airbyte

Database Technologies



MongoDB



CosmosDB



Snowflake

API Development



Django REST



Flask



.NET Core



SpringBoot

Our Tech Stack

DevOps and MLOps



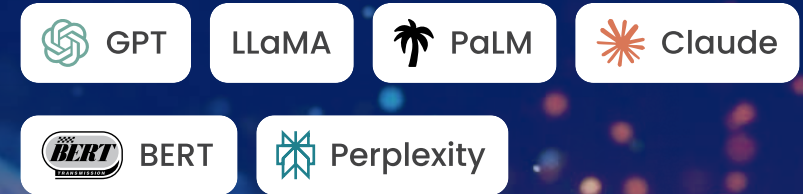
Programming Languages



Data Visualization



LLMs



Process and Methodology

01



Discovery and Planning:

Understanding client needs and setting objectives.

02



Data Collection and Analysis:

Processing and analyzing data to identify patterns.

03



Model Development:

Developing, testing, and refining AI/ML models.

04



Deployment and Monitoring:

Seamless implementation with ongoing performance checks.

CUSTOMER Success Stories



CASE STUDY

AI-based Investment Management System



INDUSTRY: Finance



PROJECT OVERVIEW: Development of an AI-powered financial portfolio and investment management platform.



SOLUTION

Sophisticated AI techniques, combined with Large Language Models (LLMs), were applied to analyze user data, provide financial recommendations, facilitate calculations, conduct statistical analysis, and generate custom alerts.



RESULT

- Personalized recommendations with 90% accuracy.
- Reduced decision-making time by 60%.
- Real-time alerts and tailored investment suggestions improved engagement.
- Enhanced efficiency in financial calculations for data-driven decisions.

CASE STUDY

Image Classification Tool to Scan Car Interiors



INDUSTRY: Automobile



PROJECT OVERVIEW: Development of AI-powered functionality to detect and extract Regions of Interest (ROIs) from 360° car interior images for enhanced analysis and usability.



SOLUTION

Python was utilized for car image detection and capture, TensorFlow for image classification and analysis, conditional mapping to facilitate seamless navigation between car parts and design elements, and PyTorch to evaluate and interpret car image data.



RESULT

- Achieved 95% accuracy in detecting and extracting ROIs from 360° car interior images.
- Reduced manual inspection time by 60% with automated image classification.
- Enabled seamless navigation across car parts and design elements.
- Enhanced user engagement and operational efficiency with AI-powered insights.

CASE STUDY

AI-based Candidate Screening Tool



INDUSTRY: HR and Recruitment



PROJECT OVERVIEW: Development of an intelligent resume parser to enhance the recruitment process.



SOLUTION

We used Word2Vec and BERT for word embeddings and semantic similarity analysis, PyPDF and PDFMiner for PDF parsing and extraction, Fitz for image-based resume processing, TF-IDF for term weighting, and Natural Language Processing to clean and prepare the resume and JD data.



RESULT

- Automated resume parsing reduced manual effort by 70%.
- Achieved a 95% match accuracy between job descriptions and candidate profiles.
- Streamlined candidate shortlisting, decreasing time-to-hire.
- Enhanced recruiter productivity through efficient screening.

CASE STUDY

AI-based Attendance Tracking System



INDUSTRY: Education



PROJECT OVERVIEW: Development of an AI-powered system to automate attendance tracking processes.



SOLUTION

An AI-based face recognition model was implemented to identify real-time facial images of students from various camera angles, with the MobileNet model used to train classifiers. A liveness detector was incorporated to distinguish authentic images from spoofed ones.



RESULT

- Achieved 98% accuracy in real-time facial recognition for attendance tracking.
- Enhanced security and authenticity with liveness detection to prevent spoofing attempts.
- Streamlined attendance management, improving record-keeping accuracy and reliability.
- Provided a scalable and automated solution, minimizing human intervention and errors.

CASE STUDY

AI-based Invoice Analysis Platform



INDUSTRY: Finance



PROJECT OVERVIEW: The client requested we use Deep Learning and AI techniques to automate the process of invoice extraction and analysis.



SOLUTION

We used Amazon SageMaker, a cloud-based Machine Learning model, to extract and assess invoice data. By training the model with new parameters, we ensured the model could analyze individual items like invoice date, number, customer information, price units, currencies, etc.



RESULT

We efficiently launched a secure ML-powered invoice scanning system that can evaluate data from paper-based, digital, and multilingual invoices, making invoice processing superbly easy for finance teams.

CASE STUDY

License Plate Detection Using OpenCV



INDUSTRY: Automobile



PROJECT OVERVIEW: The client requested we use AI-powered tech to automate the identification of license number plates from vehicles.



SOLUTION

We implemented OpenCV and Python to capture an array of license number plates from videos and images. We applied OCR to scan and process image number plates and convert them into digital data. We also trained Machine Learning models to handle real-world diversities and complexities in license number plates across regions.



RESULT

We successfully launched a Computer Vision-powered license number plate detection system that automatically identifies vehicle number plates passing through toll plazas, highways, gated communities, business parks, etc.

CASE STUDY

AI Tool for Hate Speech Detection on Twitter



INDUSTRY: Social



PROJECT OVERVIEW: The client requested we create an AI-based tool that detects offensive language and hate speech in tweets, especially those spread by political parties.



SOLUTION

We used Twitter Auth1 API to collect hundreds of tweets, NLP to clean/prepare the tweet data, and ALBERT (a Lite BERT) to classify and detect hate speech from tweets. We handled large datasets and trained the NLP model without facing memory crash issues.



RESULT

We successfully launched the solution in just a month, enabling hate speech detection, thus combating bullying and aggressive behavior on Twitter.

CASE STUDY

AI Platform for Document Extraction and Analysis



INDUSTRY: Information Technology



PROJECT OVERVIEW: The client requested we create a system to discover documents uploaded on a server and extract relevant data for analysis.



SOLUTION

We used Langchain, an AI technology, to seamlessly enable document analysis and retrieval, GPT-3.5 to generate unique outputs based on the uploaded documents, Fitz to handle hundreds of documents, and text embedding techniques to capture the semantic meaning of the documents.



RESULT

By implementing the solutions, we could successfully deliver the project in just 15 days, enabling intelligent data extraction from an ocean of uploaded documents.

CASE STUDY

AI Voice Bot for Food Ordering



INDUSTRY: Food and Beverage



PROJECT OVERVIEW: The client requested we implement AI voice bots into their workflow to improve the food ordering experience for customers.



SOLUTION

We leveraged the power of GPT-3.5 for natural language understanding and generation. We used Intella for voice recognition and processing and Twilio to enable communication between restaurants and diners. We used Django REST for the backend API and Redis for caching.



RESULT

We successfully launched the Voice Tech AI bot in just 3 months, entirely transforming and simplifying how diners order food at restaurants.

Flexible Engagement to Meet Your Needs



Dedicated Development Team:

End-to-end product development.



Staff Augmentation

On-demand talent to fill your skill gaps.



Project-Based (Fixed Cost)

Predictable costs and timely delivery.



Discovery Workshop

Collaborative planning for project success.

Exceptional Service, Proven Results

300+ Glowing 5-Star Reviews
Across Top B2B Review Platforms



Clients Love Us



"They are always willing to help, even after the project was supposed to have ended."



Charles Douglas-Osborn
Head of Product, NewtonX

Our Employees Love Us Too



AmbitionBox



'GLASSDOOR'





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