ALGOSTATS CONSULTING SERVICES

ALGOSTATS
INNOVATE WITH INTELLIGENT ANALYTICS

CORPORATE DECK – 2024 V5

ABOUT US

Welcome to Algostats Consulting Services, your premier partner for data-driven solutions and strategic innovation.
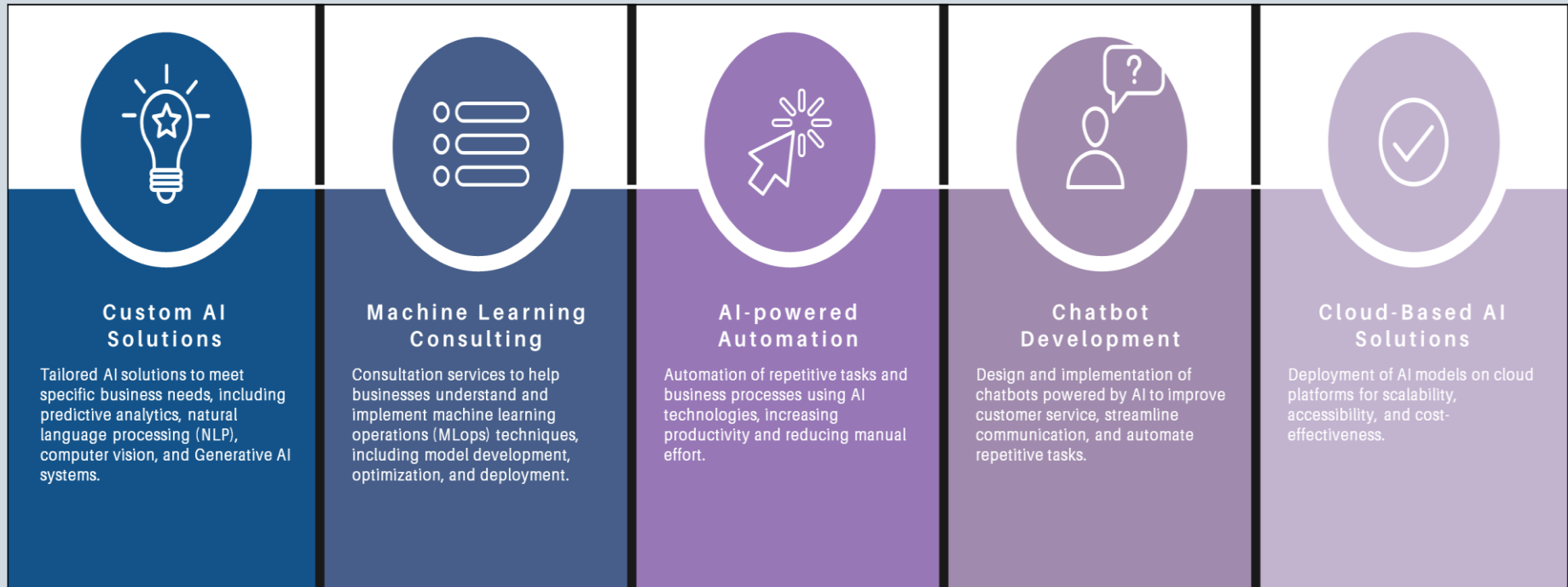
Algostats Consulting Services is an emerging Analytics & Business consulting firm, officially registered & established in 2021.

At Algostats, we specialize in turning complexity into clarity by harnessing the power of data science, artificial intelligence, machine learning, and the transformative capabilities of generative AI.

Our Vision: To empower businesses to unlock their full potential through bespoke strategies and advanced analytics, setting the standard for excellence in the digital age.

Our Mission: Algostats Consulting Services is committed to delivering state-of-the-art, tailored solutions that drive growth, optimize performance, and create sustainable competitive advantages for our clients.

SERVICE OFFERINGS

Custom AI Solutions

Tailored AI solutions to meet specific business needs, including predictive analytics, natural language processing (NLP), computer vision, and Generative AI systems.

Machine Learning Consulting

Consultation services to help businesses understand and implement machine learning operations (MLops) techniques, including model development, optimization, and deployment.

AI-powered Automation

Automation of repetitive tasks and business processes using AI technologies, increasing productivity and reducing manual effort.

Chatbot Development

Design and implementation of chatbots powered by AI to improve customer service, streamline communication, and automate repetitive tasks.

Cloud-Based AI Solutions

Deployment of AI models on cloud platforms for scalability, accessibility, and cost-effectiveness.

- **Strategy & Advisory Services**
- **Data Science & AIML Web Application Development**
- **Professional Trainings & Networking**

PRODUCTS PROTOTYPE

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ALGOSTATS ML

Algostats ML Product Promo!

Introducing Algostats ML: Revolutionizing Predictive Analytics with NoCode

In an era where data drives decisions, Algostats proudly unveils its latest innovation: Algostats ML, a NoCode Predictive Analytics Web Application designed to democratize Machine Learning (ML). With a user-friendly interface and an intuitive workflow, Algostats ML empowers users of all skill levels to navigate the complexities of the ML cycle with just a few clicks. Our platform is built on the belief that the power of predictive analytics should be accessible to everyone, not just data scientists.

ALGOSTATS VISION

YOUR GATEWAY TO EFFICIENT P2P INVOICE PROCESSING AUTOMATION

Algostats Vision: A Cutting-Edge Image Processing Solution

At ALGOSTATS, we are excited to introduce you to our cutting-edge application, meticulously crafted to revolutionize the way you handle invoice processing. Our Multilanguage Invoice Content Extractor is your ultimate tool in streamlining the indexing process, a crucial step in the Procure-to-Pay (P2P) workflow. With a focus on automation, accuracy, and efficiency, ALGOSTATS is here to transform your P2P invoice processing tasks.

PROTOTYPES - SNAPSHOT

IMAGE PROCESSING (CV) - INVOICE CONTENT EXTRACTOR

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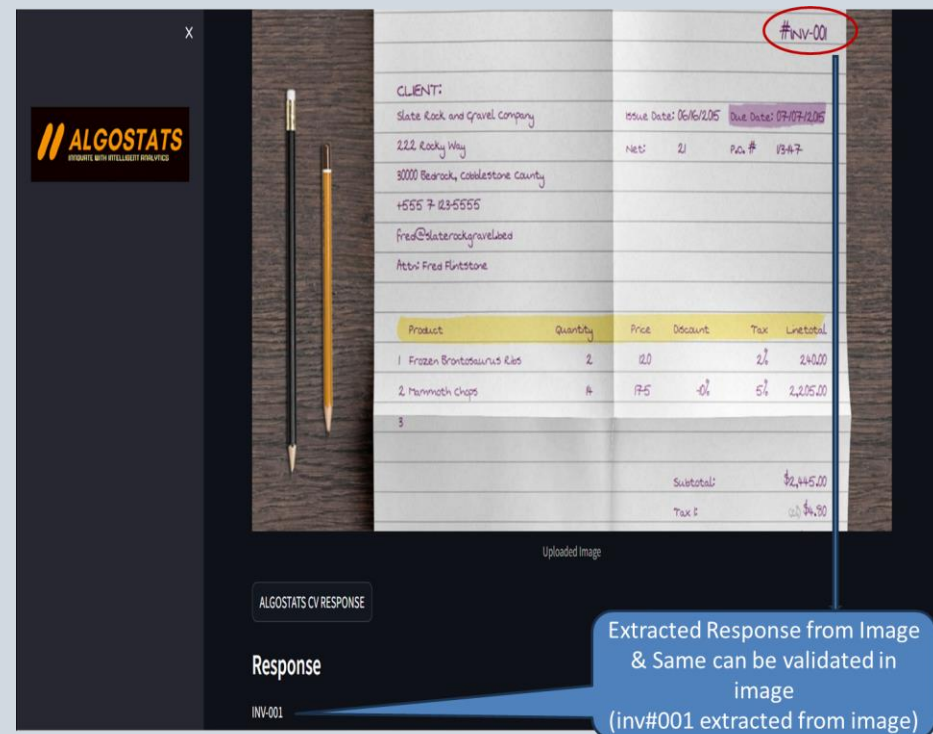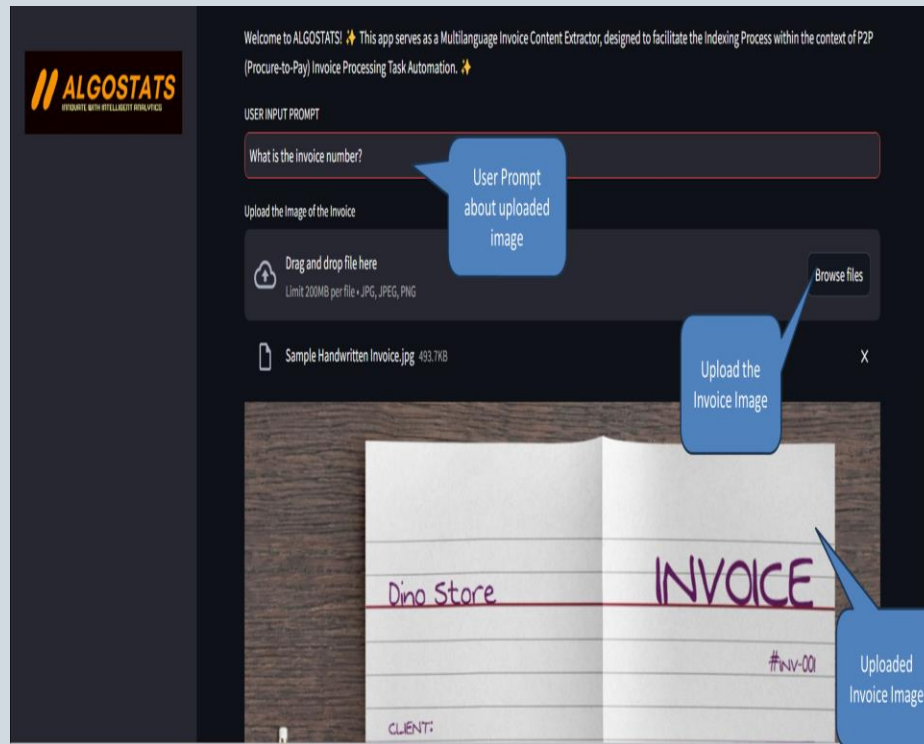
AI CHATBOT

GenAI Chatbot using Gemini Pro AI LLM Based Models. An Assistant to generate Code, Content based on Text Prompting

NO-CODE ML APP

No-Code Predictive Analytics Web App for any Tabular Data (Regression & Classification)

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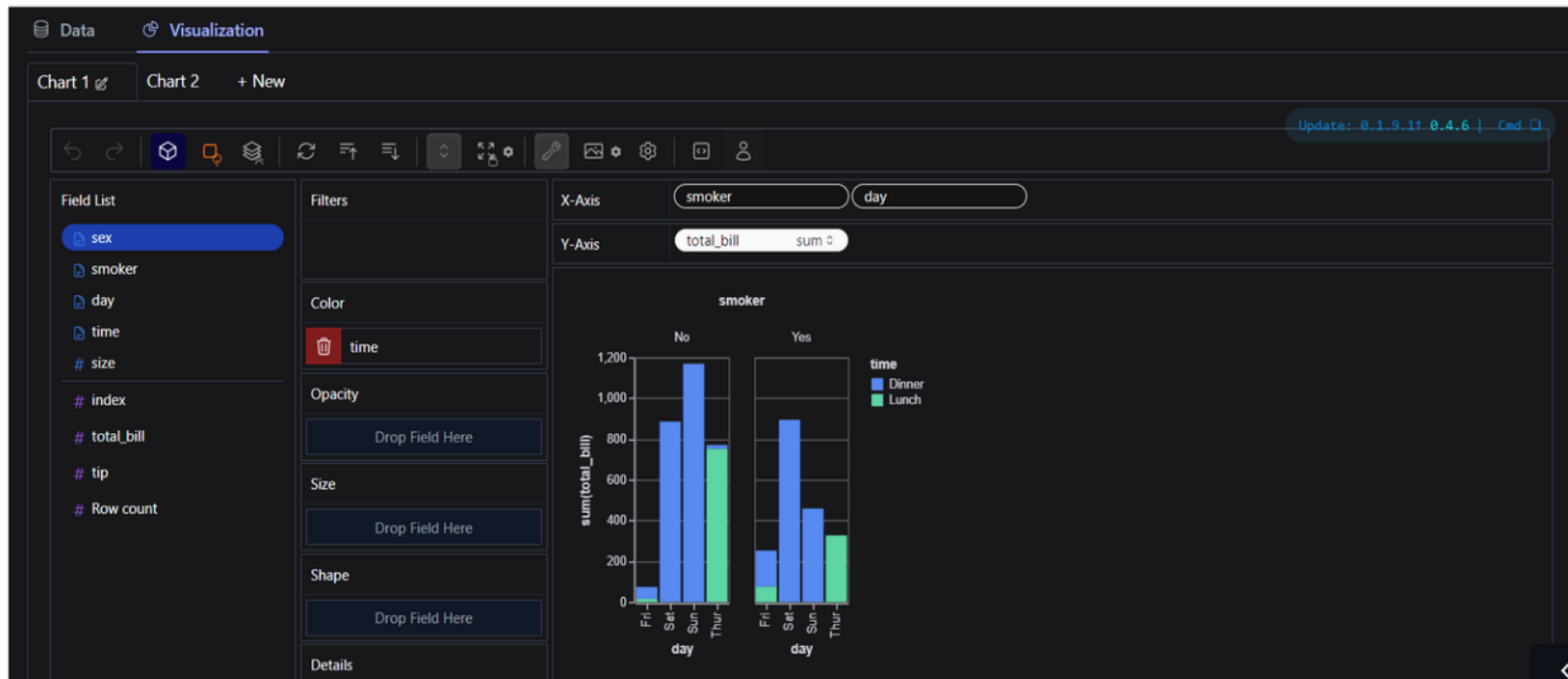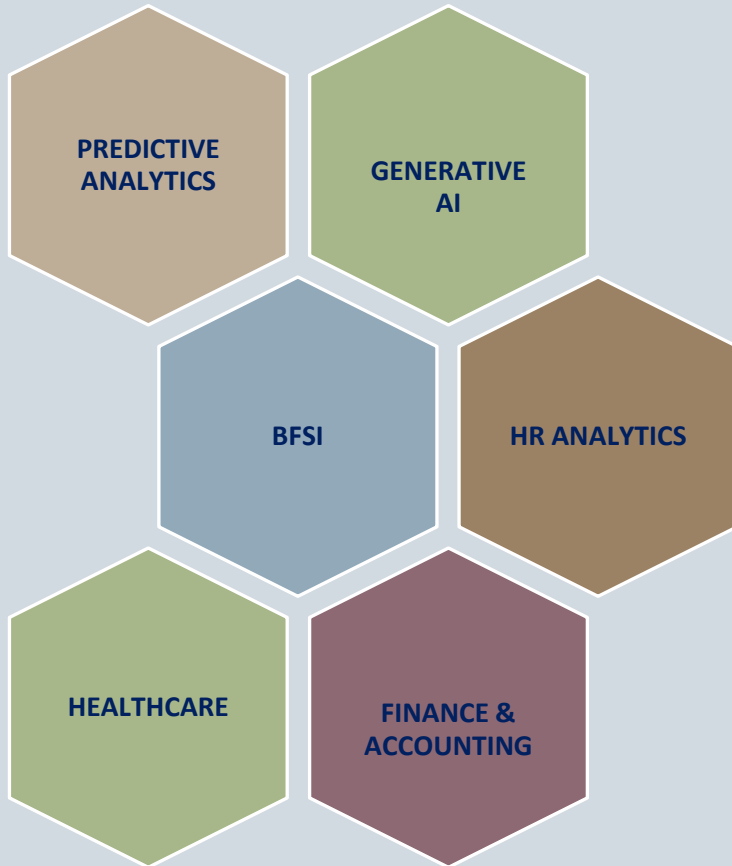
Drag & Drop Data Visualization App

Tableau like Drag & Drop Visualization app.

A demonstration of the DRAG AND DROP DATA VISUALIZATION App

DEMO

PREDICTIVE ANALYTICS

GENERATIVE AI

BFSI

HR ANALYTICS

HEALTHCARE

FINANCE & ACCOUNTING

DEMO AIML WEB APPLICATIONS

Demonstration of AIML & Generative AI Chatbot Applications

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OUR APPROACH

ANALYTICS & BUSINESS CONSULTING FRAMEWORK

Business Operations / Process Study

[Kick Start]

Opportunity Identifications

[Technical Feasibility & Scope]

Business Case / Cost Benefit Analysis – Sign Off

[Capital & Operational cost Benefit Estimation]

Solution Design [AIML or Workflow Automation]

Development / Deployment

[Develop, Test & Production]

Benefits Materialization

[Realization of Productivity & Quality Improvements]

Automation

Analytics

Artificial Intelligence
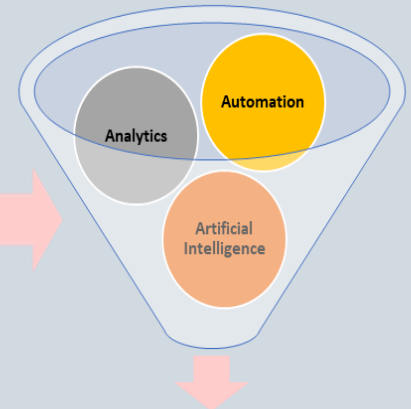
CONSULTING & BUSINESS SIGN-OFF PHASE

SOLUTION DEVELOPMENT & IMPLEMENTATION PHASE

- ✓ **AIML - Web Applications**
- ✓ **Workflow Automations**
- ✓ **Data Visualizations Web Applications**
- ✓ **Business Excellence Solutions**

ALGOSTATS
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- 4 Day AIML Workshop

- 4 Day Lean Six Sigma Workshop

Innovation Incubator Program **@ Algostats Innovation Hub**

AIML Workshop Overview

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This accelerated 4-day workshop is designed to immerse participants in the world of AI and ML, providing them with the knowledge and hands-on experience needed to begin applying these technologies in their work or further studies. The syllabus is structured to maximize learning within the condensed timeframe, emphasizing practical application and real-world relevance.

Day 1: Introduction to AI and Fundamentals of Machine Learning

Morning Session: AI Fundamentals
- **Overview of AI:** Definitions, significance, and applications.
- **History and Types of AI:** From narrow to superintelligent AI.
- **Ethical Considerations:** Discussing the ethical implications of AI technologies.

Afternoon Session: Basics of Machine Learning
- **Machine Learning Overview:** Differentiating AI, ML, and deep learning.
- **ML Categories:** Introduction to supervised, unsupervised, and reinforcement learning.
- **The ML Workflow:** From data collection to model evaluation, introducing key concepts.

Day 2: Supervised Learning and Data Preprocessing

Morning Session: Data Handling Techniques
- **Data Collection and Cleaning:** Techniques for preparing data.
- **Feature Engineering:** Selecting and transforming features for better models.

Afternoon Session: Supervised Learning Models
- **Regression and Classification:** Focusing on linear regression, logistic regression, decision trees, and SVM.
- **Model Evaluation:** Understanding metrics to assess and improve model performance.

Day 3: Unsupervised Learning and Introduction to Deep Learning

Morning Session: Unsupervised Learning Techniques
- **Clustering and Dimensionality Reduction:** Practical applications of k-means, PCA, and association rules.

Afternoon Session: Deep Learning Basics
- **Neural Networks:** Fundamentals, including architecture, activation functions, and training.
- **Introduction to CNNs and RNNs:** Understanding their applications in image and sequence data processing.
- **Tools and Frameworks:** Quick overview of TensorFlow and PyTorch for deep learning.

Day 4: Applied Machine Learning and Project Workshop

Morning Session: Special Topics in AI and ML
- **Reinforcement Learning:** An introduction to the basics and applications.
- **Real-World Applications:** Highlighting AI and ML applications in various industries such as healthcare, finance, and autonomous vehicles.

Afternoon Session: Hands-on Project and Wrap-Up
- **Project Implementation:** Participants apply what they've learned to a project, using datasets provided or their own data.
- **Presentation and Feedback:** Sharing project outcomes, insights, and receiving feedback.
- **Closing Discussion:** Recap of key learnings, resources for further exploration, and strategies for implementing AI and ML solutions in real-world scenarios.

Lean Six sigma Workshop Overview

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This accelerated 4-day workshop is designed to provide participants with a strong foundation in Lean Six Sigma principles and the practical skills needed to contribute to improvement projects. The compact schedule emphasizes active participation and application, preparing attendees for immediate implementation of the methodologies and for pursuing certification.

Day 1: Introduction and Define Phase

Morning Session: Introduction to Lean Six Sigma

- **Overview of Lean and Six Sigma:** Key principles, history, and benefits.
- **Integration of Lean and Six Sigma:** How combining both methodologies improves processes.
- **Role of Green Belts:** Overview of responsibilities and project involvement.

Afternoon Session: Define Phase

- **Project Identification:** Understanding customer needs and defining project objectives.
- **Voice of the Customer (VOC):** Techniques for capturing customer feedback.
- **SIPOC Diagrams:** High-level process mapping to set the project scope.

Day 2: Measure and Analyze Phases

Morning Session: Measure Phase

- **Data Collection Strategies:** Effective techniques for gathering process data.
- **Measurement Systems Analysis (MSA):** Assessing measurement accuracy and reliability.
- **Process Capability Analysis:** Evaluating current process performance.

Afternoon Session: Analyze Phase

- **Root Cause Analysis:** Tools for identifying the root causes of defects (Fishbone diagram, 5 Whys).
- **Data Analysis:** Basic statistical tools for analyzing process data.

Day 3: Improve and Control Phases

Morning Session: Improve Phase

- **Generating Solutions:** Brainstorming and selecting improvement ideas.
- **Pilot Testing:** Conducting small-scale tests to evaluate solutions.
- **Implementation Strategies:** Planning for broad implementation of improvements.

Afternoon Session: Control Phase

- **Developing Control Plans:** Strategies to maintain improvements.
- **Statistical Process Control (SPC):** Using control charts to monitor ongoing process performance.
- **Documentation:** Best practices for documenting changes and processes.

Day 4: Lean Tools, Project Application, and Certification Prep

Morning Session: Lean Tools and Techniques

- **5S, Kaizen, Poka-Yoke:** Overview and application of key Lean tools for continuous improvement.
- **Value Stream Mapping:** Techniques for visualizing and optimizing processes.

Afternoon Session: Project Workshop and Review

- **Project Application:** Participants apply Lean Six Sigma tools to a case study or project, simulating the DMAIC process.
- **Review and Feedback:** Group presentations on projects, feedback from instructors, and discussion on practical implementation challenges.
- **Wrap-Up and Next Steps**
- Final Q&A session.
- Guidance on implementing Lean Six Sigma projects in the workplace.
- Steps towards certification and continuous learning opportunities.

Let's Work together, SCHEDULE A MEETING