

Data Analytics Professional Services

See What Navisite Can Do For You!



- Combine teams of 20+ experts and growing
- Management staff with a combined 20+ SME years
- Our teams are broken up into architects and developers
- Project Manager and Business Analyst on staff
- All members maintain a short bio/resume



Scope of Data Analytics Services



Design and Strategy

Create a better plan for managing, optimizing, securing and scaling your data with fully managed cloud services.



Data Integration

Integrate and transform your data for the cloud and generate insights that will drive your business forward.



Data Warehousing

Power your data analytics with data warehousing services that efficiently collect, organize and store your data.



Data Visualization

Analyze business data using various graphics to highlight Key Performance Indicators (KPIs) and trends.



Advanced Analytics

Take your data to the next level by training and analyzing models to make predictions and automate forecasting.



We are the Subject Matter Experts

Microsoft

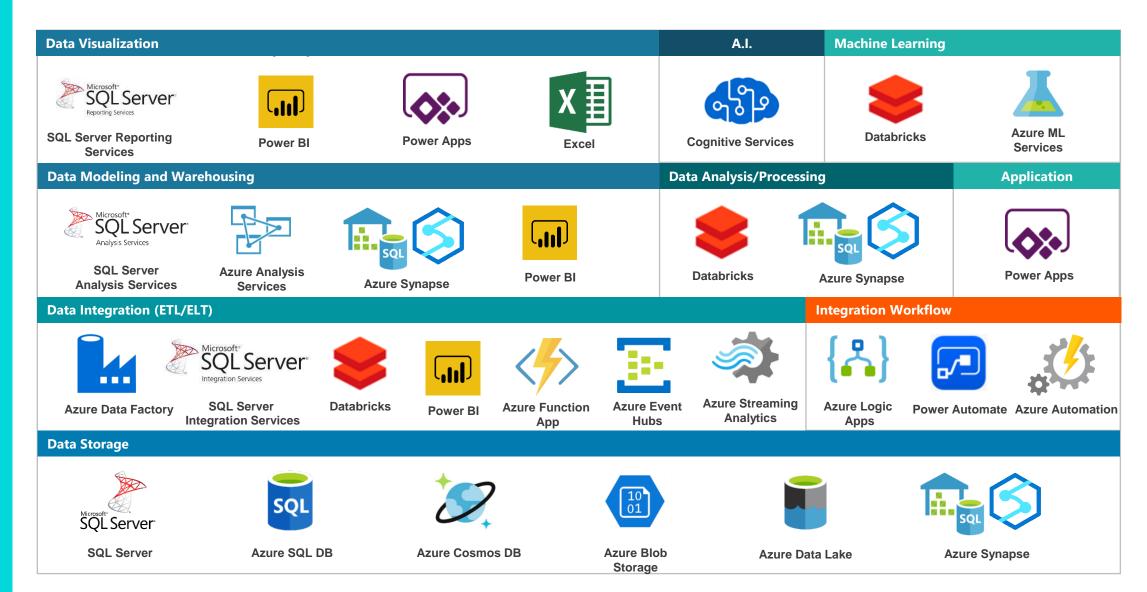
- On Premise
- Cloud Implementations
 - laaS
 - SaaS
 - DBaaS
- DevOps



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Microsoft Data Analytics Tools & Technologies

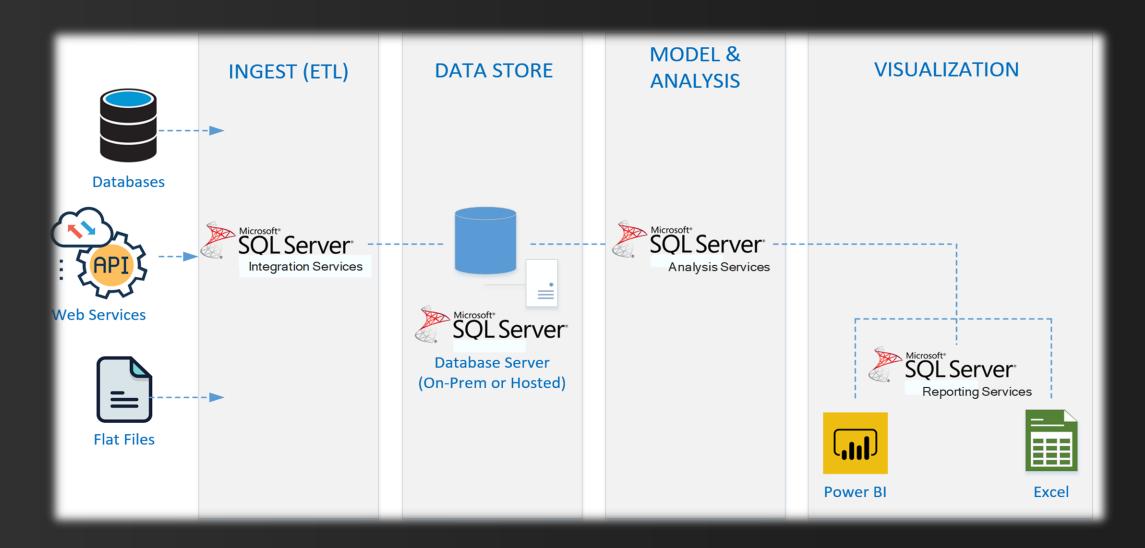




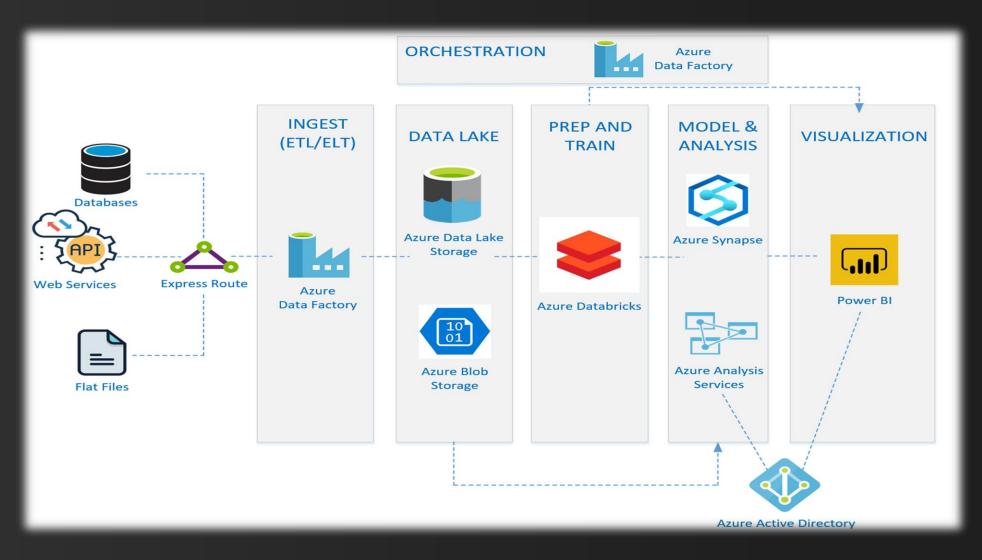
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Data Warehousing

Microsoft On-Prem Solutions

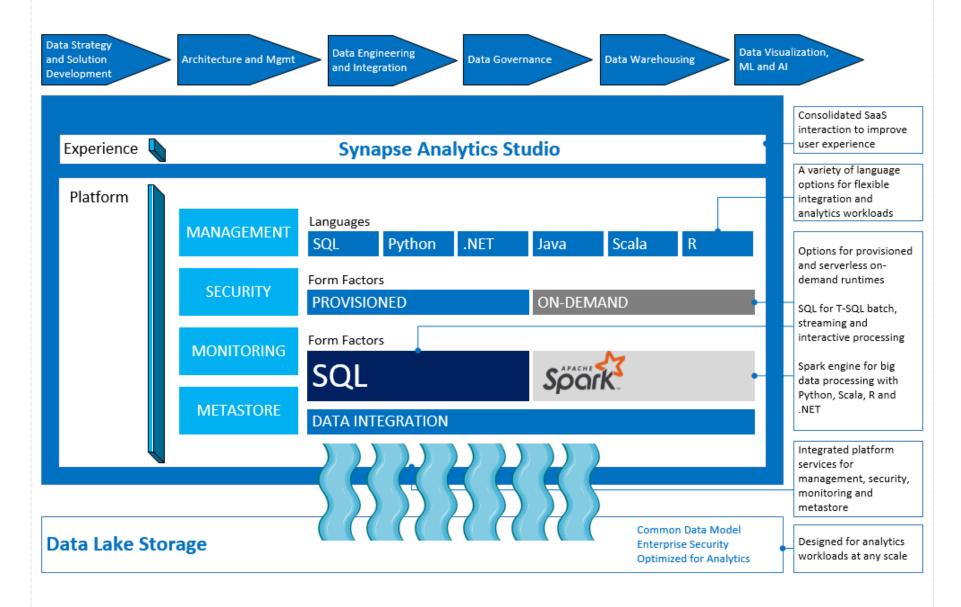


Modern Microsoft SaaS Solutions



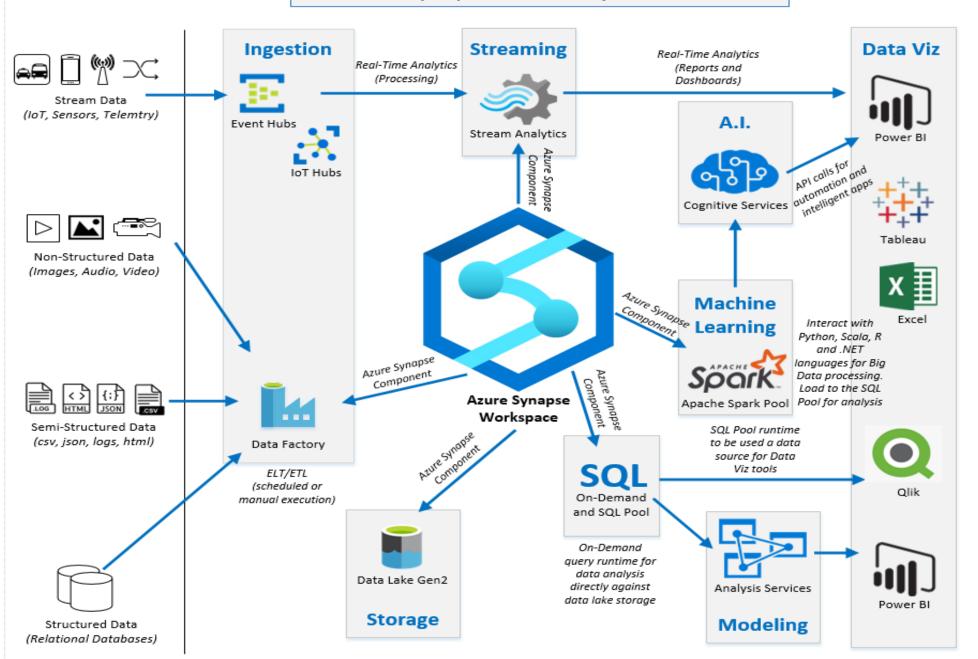
Azure Synapse Analytics

Designed for analytics workloads at any scale





Azure Synapse Data Analytics Solution





Business Users/ Analysts



Analytic Insights



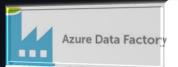


Driving Your Data with ETL/ELT

```
.SK EmploymentLength
        ,SK_HomeOwnerShip
        ,SK_LoanApplication
        .SK LoanStatus
        ,CONVERT(decimal(15,2), CONVERT(float, annual_inc)) as AnnualIncome
        ,CONVERT(decimal(10,2), dti) as DebtToIncomeRatio
        ,CONVERT(decimal(10,2), funded amnt) as FundedLoadAmount
        ,CONVERT(decimal(10,2), int rate) as InterestRate
        ,CONVERT(decimal(10,2), installment) as MonthlyPayment
        ,CONVERT(decimal(10,2), out_prncp) as RemainingPrincipal
        ,CONVERT(decimal(10,2), total_pymnt) as TotalAmountPaidToDate
        ,CONVERT(decimal(10,2), total rec prncp) as PrincipalPaidToDate
        ,CONVERT(decimal(10,2), total rec int) as InterestedPaidToDate
        ,CONVERT(int, deling_2yrs) as NumDeliquentIn2Years
        ,CONVERT(int, deling_amnt) as DelinquentAmount
        ,CONVERT(int, inq_last_6mths) as CreditInquiresIn12Months
           WHEN mths since last deling = " THEN NULL
           ELSE CONVERT(int, mths since last deling)
        END as MonthsSinceLastDelinguency
        ,CONVERT(int, open acc) as OpenAccounts
        ,CONVERT(decimal(10,2), CONVERT(float, total_rec_late_fee)) as LateFeesPaidToDate
       ,CONVERT(int, open acc) as OpenCreditLines
        ,CONVERT(int, num_accts_ever_120_pd) as Accounts120PastDue
           WHEN num tl 120dpd 2m = '' THEN NULL
           ELSE CONVERT(int, num_tl_120dpd_2m)
        END as Accounts120PastDue2Months
        ,CONVERT(int, num_tl_30dpd) as Accounts30PastDue
        ,CONVERT(int, num_tl_90g_dpd_24m) as Accounts90PlusPastDueIn2Years
       ,CONVERT(int, num_tl_op_past_12m) as AccountOpenedPast12Months
        ,CONVERT(decimal(10,2), percent_bc_gt_75) as PercentageBankCardsGreaterThan75ofLimit
        ,CONVERT(int, pub_rec) as PublicRecords
       ,CONVERT(int, pub_rec_bankruptcies) as Bankruptcies
        ,CONVERT(int, tax_liens) as TaxLiens
        ,CONVERT(decimal(10,2), tot_coll_amt) as TotalCollectionAmountsOwed
        ,CONVERT(decimal(10,2), tot cur bal) as TotalCurrentBalanceAllAccounts
        ,CONVERT(decimal(10,2), tot_hi_cred_lim) as TotalHighCreditLimit
       ,CONVERT(decimal(10,2), total_bal_ex_mort) as TotalBalanceExclMortgage
        ,CONVERT(decimal(10,2), total bal il) as TotalCurrentBalanceAll
FROM Demo.dbo.StageLoanData stage
   LEFT JOIN DimBorrowerState states
       ON stage.addr_state = states.BorrowerState
   LEFT JOIN DimDate dates
       ON CONVERT(date, REPLACE(stage.issue_d, '-', ' ')) = dates.Date
```

```
ROM Demo.dbo.StageLoanData stage
  LEFT JOIN DimBorrowerState states
      ON stage.addr state = states.BorrowerState
  LEFT JOIN DimDate dates
      ON CONVERT(date, REPLACE(stage.issue_d, '-', ' ')) = dates.Date
  LEFT JOIN DimDTIRatio ratio
              WHEN stage.dti IS NULL OR dti = '-1' THEN 1
              WHEN CONVERT(decimal(10,2), stage.dti) BETWEEN 0 AND 20.49 THEN 2
              WHEN CONVERT(decimal(10,2), stage.dti) BETWEEN 20.50 AND 40.49 THEN 3
              WHEN CONVERT(decimal(10,2), stage.dti) BETWEEN 40.50 AND 60.49 THEN 4
              WHEN CONVERT(decimal(10,2), stage.dti) BETWEEN 60.50 AND 80.49 THEN 5
              WHEN CONVERT(decimal(10,2), stage.dti) BETWEEN 80.50 AND 100.49 THEN 6
              WHEN CONVERT(decimal(10.2), stage.dti) >= 100.50 THEN 7
           END = ratio.DTIRatioRangeID
  LEFT JOIN DimEmployeeTitle title
      ON stage.emp title = title.EmployeeTitle
  LEFT JOIN DimEmploymentLength emplength
      ON stage.emp length = emplength.EmploymentLength
   LEFT JOIN DimHomeOwnerShip home
      ON stage.home ownership = home.HomeOwnership
  LEFT JOIN DimLoanApplication loanapp
      ON stage.application type = loanapp.ApplicationType
      AND stage.verification status = loanapp.VerificationStatus
      AND stage.term = loanapp.LoanTerms
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 0 AND 5.49 THEN 1
                  WHEN CONVERT(decimal(10,2), int rate) BETWEEN 5.50 AND 10.49 THEN 2
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 10.50 AND 15.49 THEN 3
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 15.50 AND 20.49 THEN 4
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 20.50 AND 25.49 THEN 5
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 25.50 AND 30.49 THEN 6
                  WHEN CONVERT(decimal(10,2), int_rate) BETWEEN 30.50 AND 35.49 THEN 7
              END = ISNULL(loanapp.InterestRateID, -1)
      AND stage.disbursement_method = loanapp.DisbursementMethod
      AND stage.grade = loanapp.Grade
  LEFT JOIN DimLoanStatus loanstatus
      ON stage.loan status = loanstatus.LoanStatus
```

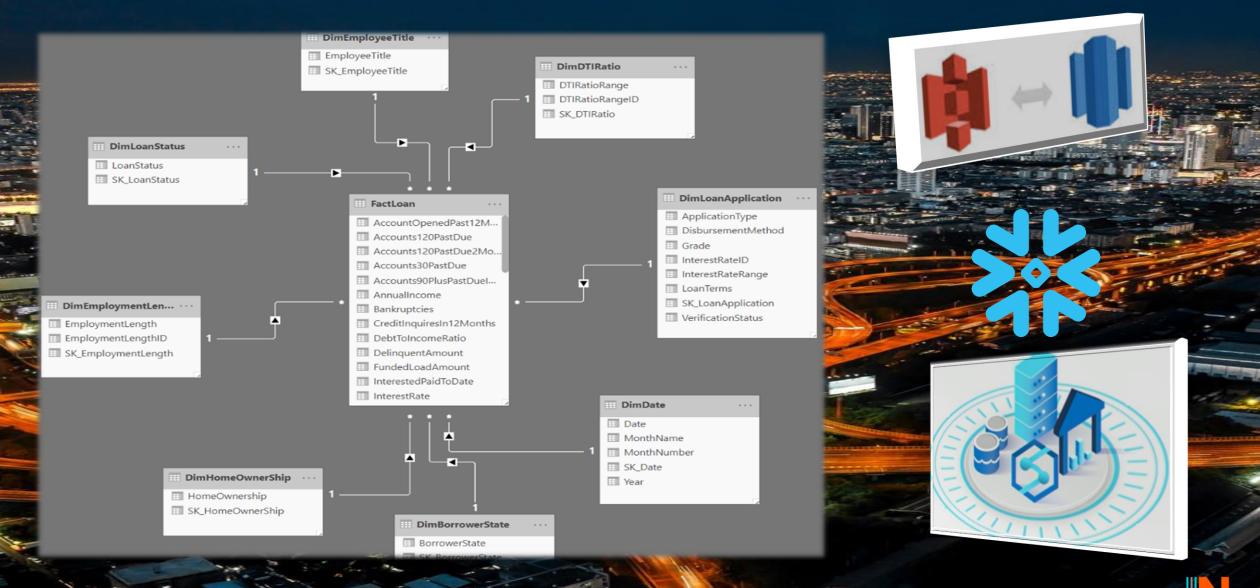




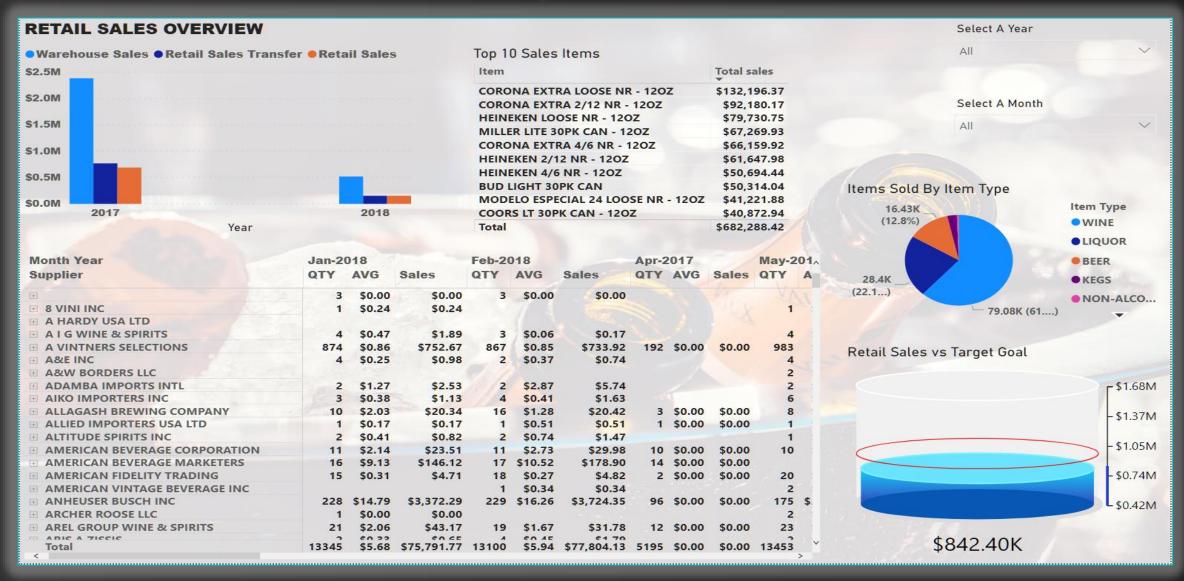




Navisite Moves Data Into New Homes



Data Viz with Navisites Experts





Case Study



Aqua Finance is a leader in fast, flexible financing programs for more than 5,000 dealerships in numerous industries – from water treatment and home improvement to HVAC, RV, marine and more.



Operating in a highly regulated field and growing rapidly at 40% YoY, Aqua Finance was fast outpacing its inflexible laaS environment with a third-party hosting provider.

It needed the help of experts to develop a modern, flexible and secure blueprint for transitioning its \$2B business – including its mission-critical web-based dealer portal – to the cloud.

SOLUTION

Partnered with Navisite to create a multi-phased plan to achieve a cloud-native architecture based on Azure:

- Provided Navisite Cloud Assessment to develop application modernization roadmap.
- Designed timeline for evolution from laaS to SaaS/PaaS for improved application responsiveness to business needs.
- Integrated plan for design and buildout of BI, data warehouse and remote DBA services.

RESULTS

"With 80% of our business flowing across our dealer portal, even a 1-hour outage could result in a \$1M loss, so our cloud environment needs to be rock solid.

Navisite has the deep Azure expertise we need to build, monitor and maintain a secure, resilient and high-performing cloud architecture with the elasticity to adapt and scale as we continue to grow."

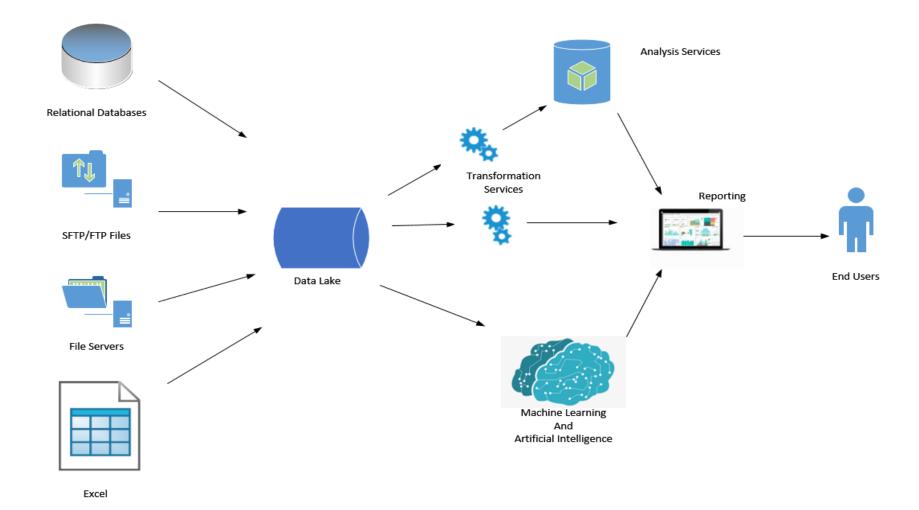
-Jon Gelhaus, SVP of IT & CSO



NAVISITE



Data Lake Architecture





Our Capabilities on Mcirosoft

- Data Lake and Delta Lake Technologies
 - Configuration
 - Identifying Workload Patterns
 - Security Best Practice
 - Optimization and Provisioning
 - Optimized File Formatting
 - Cloud Service Provisioning
 - Architectural Design
 - Raw Storage
 - Hot and Cold Options
 - Containers





Advanced Analytics

Robotic Process Automation (RPA)

We are the Subject Matter Experts

Microsoft

- Al Bots
 - Chat Bots
 - Attended and Unattended Al Bots
 - Natural Language Processing
- Power Automate
 - Automatic workflows
 - Provides a single automation platform





Providing a RPA TCO

- Discovery call around your current manual process
- Internal review and analysis on the process and a solution
- Mock up of a similar solution
- Provide estimated cost for tools and implementation.



When to think about RPA Opportunities

- When a customer points out
 - Volume of repetitive tasks
 - Points out a velocity issues needing more bodies
 - Efficiency or error prone processes
 - Needing decision making programmatically
 - Uptick in manual work





RPA Prime Candidates

- Updating Information Programmatically
- Migrating Information and maintaining Application logs
- Urgent tasks based of events
- Critical system monitoring opportunities
- Financial processing
- Automating custom responses especially with frequently asked questions





CHALLENGE

As Synclaire's business grew, its manual approach to invoicing could not be sustained. Similarly, maintaining its image catalog and sending and logging the appropriate style images to each retail partner became too complex a process to manage manually.

Synclaire needed to automate these core business processes and turned to Navisite's experts in data analytics, integration and automation to find a solution.

SOLUTION

Navisite's data analytics experts used Microsoft's process automation tools (SSIS) to develop:

- A new automated schedule to scan for shipping confirmations and then generate and send customized invoices to Synclaire's retail partners.
- Two automated workflows for the multiple steps involved in image catalog management—one to catalog the images by style, and another to deliver customized images to retailers.

RESULTS

With Navisite's help, Synclaire was able to cut invoice delivery from up to three days to just hours, and automate the entire process for collecting, storing and sending customized style images to retail partners.

"Navisite's experts have continuously proven that their knowledge and experience in data integration and automation can support our most complex IT projects."

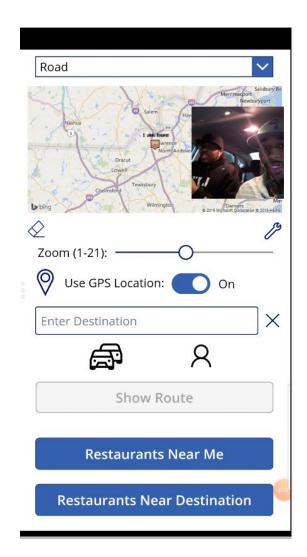
- Evan Cagner, CEO of Synclaire Brands,

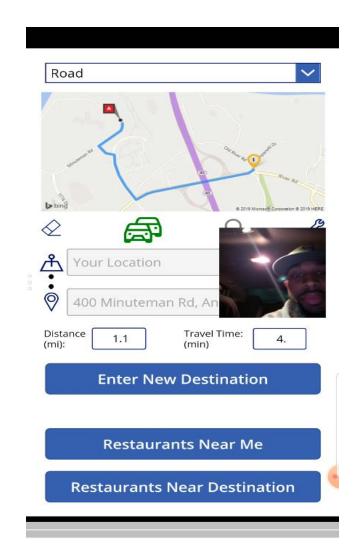


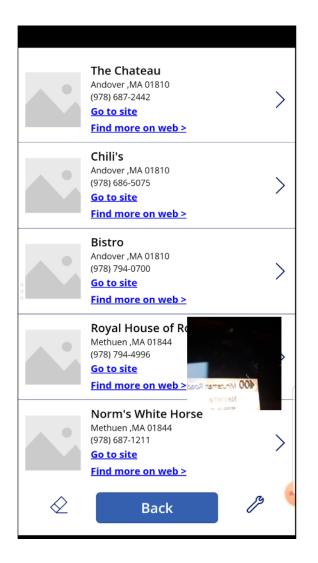
Advanced Analytics

Machine Learning & Artificial Intelligence

Power Apps with Al

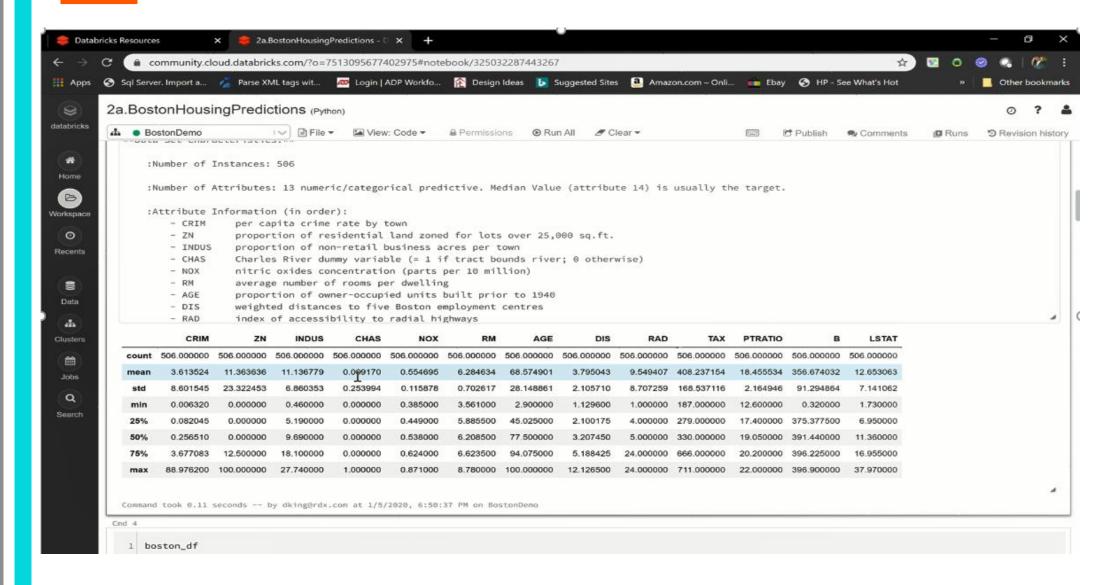






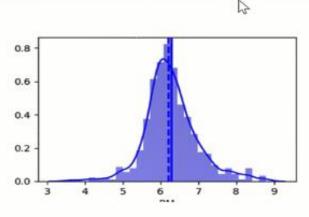


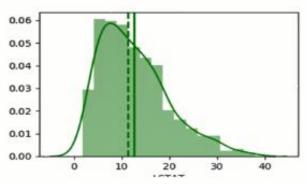
Data Bricks and Machine Learning

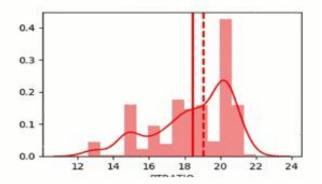




Data Bricks and Machine Learning

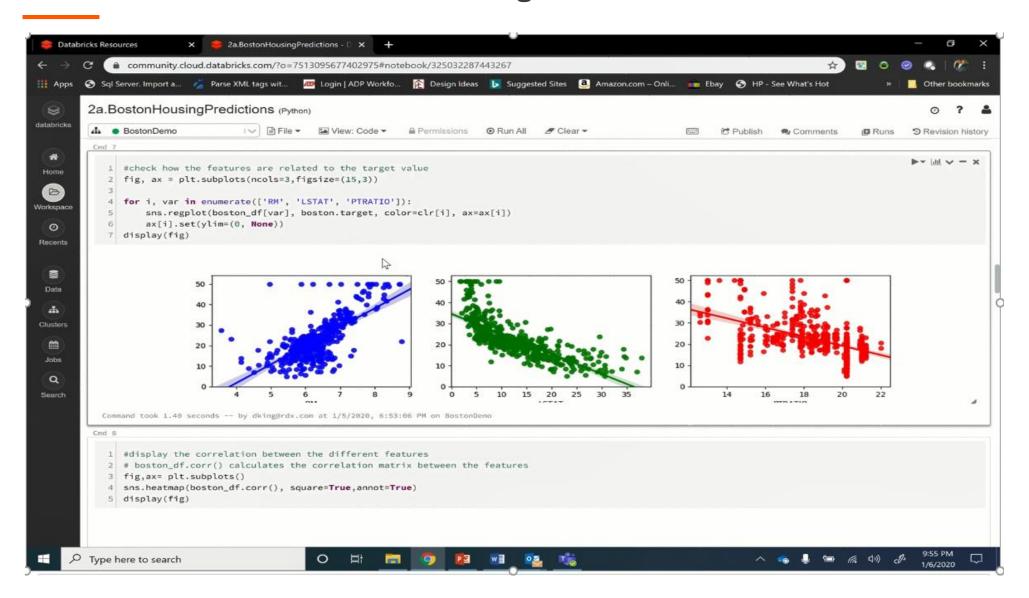








Data Bricks and Machine Learning









Our Approach

SoW's and Case Studies

Data Integration Assessment



Assessment Approach

- Define data discovery objective and scope
- Identify
 Stakeholders and
 Business Analysts



Data Discovery

- Data sources assessment & prioritization
- Data quality criteria and transformation evaluation



Design & Strategy

- Identify tools and architecture design
- Document metadata and mapping rules for development



PoC Implementation

- Integrate a defined subset of data
- User acceptance testing while documenting results and issues



Full Implementation

- Ensure data governance
- Integrate and scale additional data sets
- Finalize user acceptance and Go-Live strategy

Navisite Data Analytics Project Implementation Estimate

Project Cost

201K

Project Hours

1080

Project Weeks

30

1 Yr Maint. & Support Cost (Optional)

42K

