

empowering through data



About Us

Founded in 2013, Emprata can help you to leverage your data assets through advanced analytics, visualization, and software development—enabling you to make better business decisions.

Core Competencies

Data Mining and Predictive Analytics

Emprata's data scientists have expertise in many big data frameworks and are adept at helping clients to discover hidden patterns in datasets and predict future trends.

Mathematical Modeling and Optimization

Our mathematicians are well versed in the modeling and optimization of real-world problems, empowering clients to maximize efficiency, reduce costs, and allocate resources.

Data Visualization

Emprata's developers create effective visualizations of large, complex datasets to clearly convey the essence of the underlying data, using a variety of techniques that include data dashboards and GIS maps.

Software Development & IT Support

Our technologists provide custom software development services and innovative IT solutions using an Agile approach, from rapid prototyping to the development and deployment of end-to-end solutions.

Past Performance

FCC | Incentive Auction

Applied advanced operations research, GIS, and data visualization to repurpose 84 MHz of TV Spectrum for mobile broadband use, and as part of the team, raised nearly \$20 billion in revenue and won the 2018 Franz Edelman Prize, the world's most prestigious award for contributions in operations research and advanced analytics.



Broadband for America | Net Neutrality Analysis

Implemented natural language processing (NLP) algorithms to perform a comprehensive analysis of over 20 million comments received in the FCC's "Restoring Internet Freedom" docket, which gained national recognition: www.emprata.com/reports/fcc-restoring-internet-freedom-docket/

FDA | Drug Approvals & Adverse Events Reporting

Responsible for software development and analytics pertaining to the drug approval process. Also created a dynamic, interactive dashboard that identifies strong signals between drugs and adverse events: www.emprata.com/clients/fda-aers/

Large Business Lending Bank | Credit Risk Assessment

Developed machine learning algorithms for one of the largest business lending banks in the US—reducing loan defaults by tens of millions of dollars per year.

Differentiators

• Our team understands that often the most effective way to explore, describe, and summarize data is to experience it through visualization. We have integrated GIS mapping and interactive Tableau dashboards into highly visible projects of national scope.

• We have a proven track record of providing traditional and innovative solutions that meet or exceed all customer requirements, delivered on time. Our portfolio of clients includes those from both the public and private sectors and covers a wide range of domains, including finance, transportation, defense, health, and telecommunications.

• Emprata has experience developing decision support tools that help our clients to utilize advanced analytics and mathematical optimization in order to meet strategic goals. For example, we created the **Resource Optimizer**, which includes an intuitive, user-friendly interface that helps organizations to efficiently allocate resources for complex, real-world scheduling problems: www.emprata.com/products/resource-optimizer/



Company Profile

Contact Information

Emprata, LLC

Phone: (571) 206-8120

Contact: Paul Salaszyk, Ph.D.
Founder & Principal Data Scientist
E-mail: psalaszyk@emprata.com

Website: www.emprata.com

Certified Small Business

 Contract Holder

IT Services (GSA Schedule 70)
Contract number: GS-35F-490DA
CAGE Code: 73SG3
DUNS Code: 050886304
SIN 132-51 IT Professional Services
NAICS Codes: 541511, 541690, 541611, 541614

Some Emprata Clients

Booz Allen Hamilton
Food & Drug Administration (FDA)
Federal Communications Commission (FCC)
Military Health (DHHQ, Pentagon, Walter Reed)
Consumer Financial Protection Bureau (CFPB)
U.S. Dept. of Transportation (USDOT)
Rensselaer Polytechnic Institute (RPI)
Broadband for America
Level 3 Communications

Analytic Disciplines

- Operations Research
- Machine Learning
- Predictive Analytics
- Data Mining
- Math Modeling & Optimization
- Big Data Analytics
- Statistical Modeling and Simulation

Decision Support Solutions

- Custom Software Development
- Software Integration
- Data Visualization
- Data Management
- Systems Engineering