# RefineM

# **Data Analytics for Project Managers**

NK Shrivastava, PMP, RMP, ACP, CSP, SPC4, ICP-ACC CEO/Enterprise Agile Coach — RefineM

Dr. Vipul Vashisht, Ph.D.,
PMP, ACP, RMP, CSM, SAFe, Azure Data Scientist
CEO - Lagozon Technologies, India
Data Engineering | Data Analytics

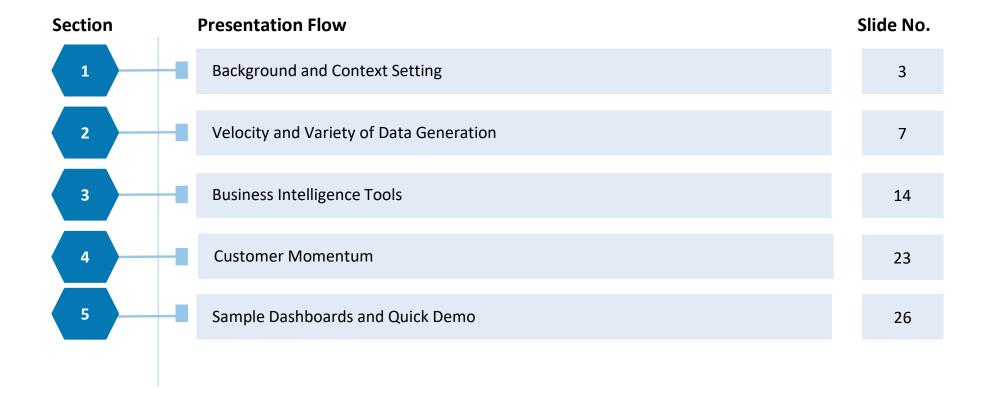


(A RefineM Partner Organization)



# Topics to be Covered





## **About Speakers**





NK Shrivastava PMP, RMP, ACP, CSP, SPC4, ICP-ACC

Helping organizations turn their project management capability into a competitive advantage



#### CEO/Enterprise Agile Coach since Dec 2011

- Agile Transformation/Coaching (IBM, Charter, Wells Fargo ...)
- Project Management/Process Improvement Consulting
- · Project Management and Agile Training
- PMP Exam Prep | PMI-ACP Exam Prep
- Agile
- Data Analytics/Power BI | Self-Paced Online Training
- Products for Project and Agile Professionals
- Essential Gear for Project Managers
- PMP Exam Simulator | Agility Assessment Tool
- Videos PMP and Agile
- 25+ years of successful Agile & Project leadership
- Successfully led hundreds of projects of all sizes using Waterfall and/or Agile
- Recovered many projects, saved millions of dollars
- Implemented numerous process improvements
- Coached/mentored hundreds of PMs and executives
- Board member of SWMO PMI Chapter (2008-2014)

Born in Meerut, a small town in north India. Now lives in Cary, NC with wife and kids



**Dr. Vipul Vashisht,**Ph.D., PMP, ACP, RMP, CSM, SAFe, Azure Data Scientist

Helping organizations solve complex Data Analytics and Data Engineering Problems

#### Chief Executive Officer - Lagozon Technologies

- CEO of Lagozon Technologies in India, one of the fast-growing Data Engineering organizations offering the best-in-class and niche IT consulting and solutions across diversified business verticals
- 25 years of IT industry experience in leadership positions with Polaris, Virtusa, Tech-Mahindra, McAfee, and Sopra-Steria.
- Responsible for scaling Data Engineering practice, Business Development, Managing Key Partnerships, and New Product Development
- Worked in the US, Singapore, Malaysia, and Dubai regions
- Speaker at International conferences, published research papers on AI and Business Analytics
- More than 20 highly prestigious Technology and Project Management certifications, including PMI-PMP, PMI-ACP, PMI-RMP, Microsoft Azure Data Scientist, Microsoft Data Analyst - PowerBI, QAI-CSQA, QAI-CSTE, CSM, SAFe, ITIL, Six Sigma.
- Engineer with BE in Electronics, MBA in Marketing (E-Commerce),
   MS in Software Systems and an Industry sponsored Doctorate in
   Software Engineering using Artificial Intelligence.



# What is New at RefineM

Upcoming Free Webinar	Date
Churn in Agile	Feb 16

RefineM Products	Self-Paced Online Training
Essential Gear for Project Managers  RefineM.com/products/	Agile Fundamentals Self-Paced Course  RefineM.com/course/agile
PMP® Exam Prep Test Simulator  Examprep.RefineM.com	PM Fundamentals Self-Paced Course  Refinem.com/course/project-management-fundamentals/
Agility Assessment Agility.RefineM.com	Agile BusReqs Self-Paced Course https://vimeo.com/ondemand/refinembusreq
PDU Bundle  https://vimeo.com/ondemand/refinempdus	Backlog Refinement Self-Paced Course  Udemy.com/course/backlog-grooming-for-agile-requirements/

# Survey Question - 01



# What are your Expectations for this Webinar?

Go to menti.com to answer

5

# **Survey Question - 02**



# How much Knowledge and/or Experience do you have with Data Analytics?

Go to menti.com to answer



Data makes business possible

Data is crucial to businesses of all sizes

**Securing data** is mandatory



Businesses need to "know thyself"

Workers are empowered with intelligent insights

Business intelligence tools visualize patterns we cannot



Data science empowers us to go farther

**Businesses need scalable analytics** 

AI/ML creates smarter organizations



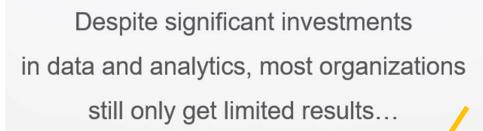
**Applications are increasingly cloud-native** 

Collaboration platforms and file-sharing are transforming

Hybrid businesses are replacing on-premises data management

# The Data Challenge







of organizations have enough data available for making decisions

IDC Data Culture Web Survey, 2021



of executives achieve transformational business outcomes

> NewVantage Partners Big Data and Al Executive Survey, 2021

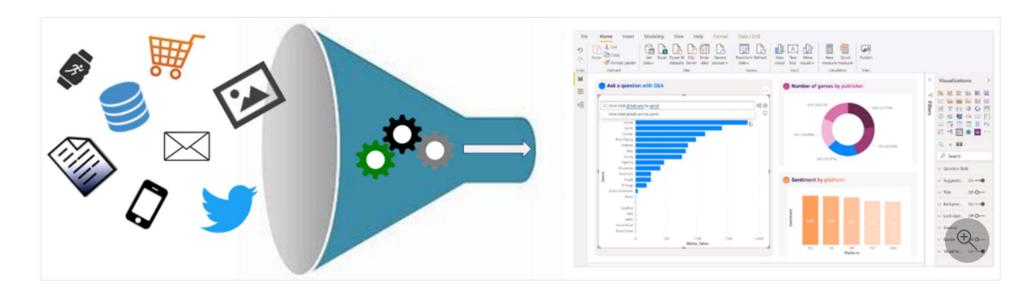


of executives see poor data literacy as important roadblock

Gartner Webinar, Drive Better Business Outcomes by Improving Your Organization's Data Literacy, Alan D. Duncan, May 12 2021 With data and information as the most strategic asset of a business, the underlying challenge faced today is understanding and using their data to positively affect change within the business.

Businesses continue to struggle to use data in a meaningful and productive way, which impacts their ability to act.

# The Data Challenge



Think about all the data that is being generated each day and that is available in an organization, from transactional data in a traditional database, sales data, marketing data, HR data, PMO data, and many more

# Data Analytics describes the process of uncovering trends, patterns, and correlations in large amounts of raw data to help make data-informed decisions.

# Analytics for everyone, from anywhere

**Business Intelligence (BI) Tools** help people see and understand data.

The visual analytics platform is transforming the way people use data to solve problems.



# **Business Intelligence and Analytics Tools**



- Some of the popular BI tools available in the market are Qlik Sense, QlikView, Microsoft PowerBI, Tableau, and ThoughtSpot.
- These tools have a direct impact on an organization's strategic, tactical and operational business decisions.
- BI Tools convert raw data into meaningful information and perform data analysis and create reports, summaries, dashboards, maps, graphs, and charts.









All logos are copyright of their parent organizations



# **Leaders in Data Analytics – BI Tools**





# 2022 Gartner® Magic Quadrant™ for Analytics and Business Intelligence Platforms

Gartner has recognized Microsoft as a Magic Quadrant Leader in analytics and business intelligence platforms. For the fourth year running, Microsoft is again positioned furthest in the completeness of vision and highest in the ability to execute.

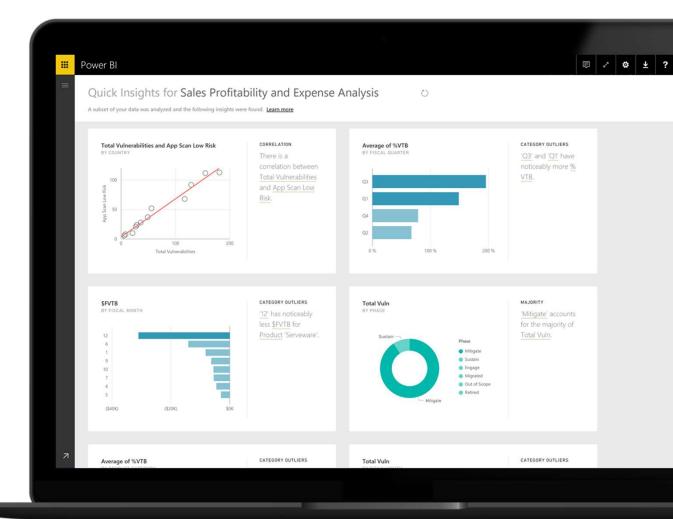


# Ask questions of your data





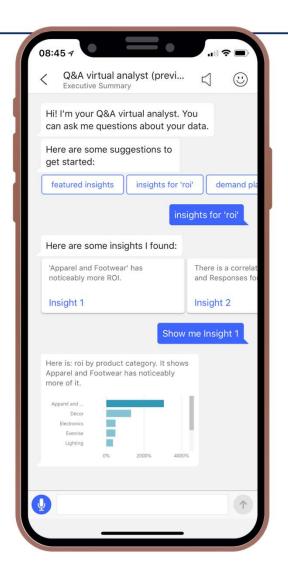
# Automatically discover insights from your data







Stay connected to your data on the go



# How Data Analytics can help PMs

- Spot early symptoms of slippages and take corrective action
- Capture the velocity of work, better timeline estimates
- Analyze project issues and risks, minimize the impact on results
- Prioritize & monitor potential issues, create solid risk response strategies
- Managers are better equipped with Interactive BI Reports
- End-user analysis of Sales, Finance, Supply SCM, HR, and other dashboards
- Helps in forecasting the budget, project completion time, and much more

# **Business Intelligence Use Cases**



#### Operations

Predictive maintenance

Demand forecasting

Operational efficiency

Inventory optimization

Operations anomaly insights

Quality assurance

Connected devices and smart buildings

Supplier and spend insights



#### Marketing

Personalization

Customer insights

Churn analytics

Dynamic pricing

Product innovation

Marketing optimization

Product recommendation



#### **Finance**

Finance forecasting

Fraud management

Rise management



#### Workforce

Employee insights

HR insights

Resource matching and planning



#### Service

Intelligent contact center

Patient care and healthcare analytics



#### Sales

Lead and opportunity scoring

Sales insights



#### **Customer momentum: Power BI**





Retail and Consumer Goods



















Discrete Manufacturing

















Government and Education













Healthcare



















































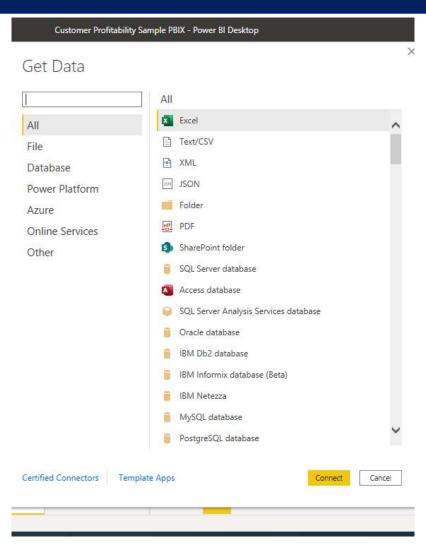


# Bl Project Life Cycle





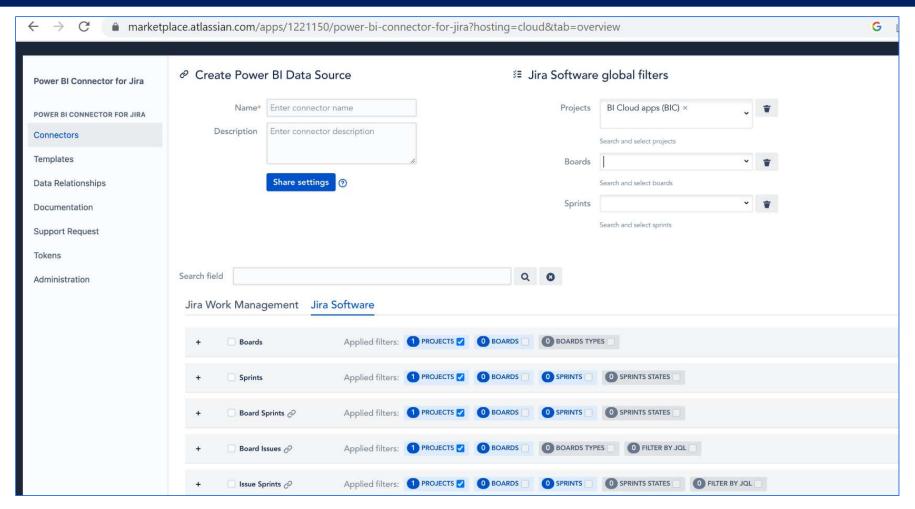
# **Data Sources**



- The Power BI team is continually expanding the data sources available to Power BI Desktop and the Power BI service.
- PowerBI can connect to various ERP Source Systems, Data Warehouses, Azure, Flat files, Online, Services and many more.
- Power BI Desktop Application can be downloaded and installed for free on your local computer
- Power BI Service supports report editing and collaboration for teams and organizations



# Data Sources – Integration with Jira



https://marketplace.atlassian.com/apps/1221150/power-bi-connector-for-jira?hosting=cloud&tab=overview

#### **Project Management Dashboard** 2021 2022 2023 2024 2025 \$35,475,012 \$62.065.068 \$53,172,018 \$53,044,516 **Process Improvement Working Capital Improvement** Cost Reduction **Income Generation Completion Rate per Phase Overall Completion Project Pipeline** On - Hold 2 (8.7%) Completed Phase 1 - Explore 94.7% In - Progr.. 9 (39....) 5 (21...) Phase 2 - Develop 87.8% 88.5% 100.0% Phase 3 - Plan 92.2% 23 **In-Progress Completion** Phase 4 - Implement 90.0% Phase 5 - Measure 80.0% Cancelled 84.4% 0% 50% 100% 7 (30.43%) 100.0% Completion% **Project Benefit per Year Project Cost Project Name** Department **Start Date End Date** Status **Project Benefit** Completion% OCOST RE... ● INCOME ... ● PROCESS I... Admin & BI \$8,443,980 \$3,648,615 January, 2021 January, 2021 In - Progress 77.0% Rhinestone \$4,018,835 A Triumph Of Softwares eCommerce January, 2021 January, 2021 Cancelled \$9,012,225 80.0% Remembering Our Sales and Marketing January, 2021 January, 2021 Cancelled \$8,719,006 \$5,285,864 75.0% \$0.2bn Ancestors Benefit \$8,630,148 \$5,785,601 Skyhawks eCommerce January, 2021 January, 2021 Completed 100.0% The Blue Bird Warehouse January, 2021 January, 2021 Completed \$9,078,339 \$4,285,483 100.0% \$0.05bn Project I \$3,326,031 \$8,504,224 77.0% The Coding Master Sales and Marketing January, 2021 January, 2021 In - Progress

\$9.014,448

\$8,674,613

\$9,072,551

\$203,756,614

\$4,557,606

\$3,190,009

\$2,534,102

\$93,941,527

100.0%

100.0%

93.0%

2036.0% \

← Go back

Fierce, Inc.

Total

Mo-Money Masterclass

A Salute To New Workers

= Dashboard

Warehouse

Warehouse

eCommerce

January, 2021 January, 2021 Completed

January, 2021 January, 2021 Completed

January, 2021 January, 2021 In - Progress

Project Management Das...

\$0.0bn

Data updated 12/12/22

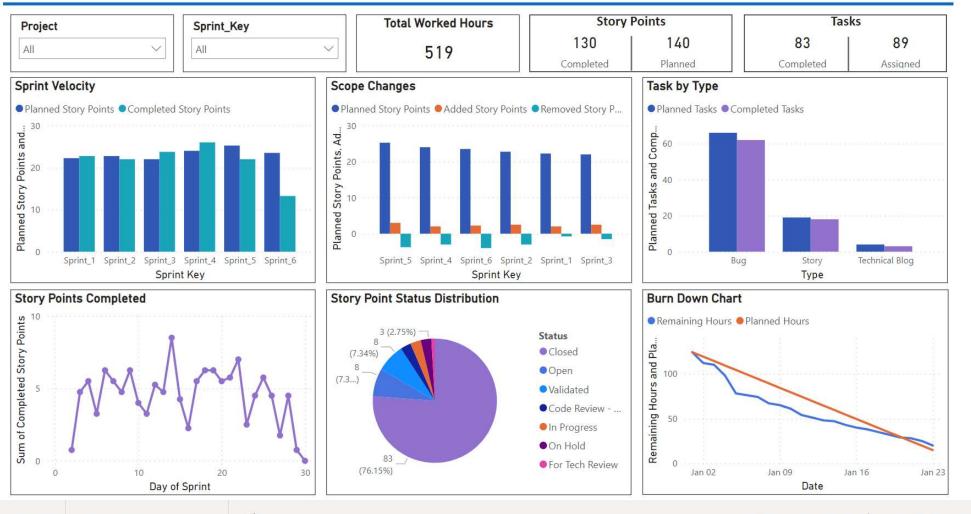


\$0.06bn

\$0.04bn

Year

#### **Sprint Management Dashboard**



 $\leftarrow$  Go back  $\equiv$  Page 1  $\vee$   $\gamma^{\nu}$ 

Sprint Mangement Dash... | Data updated 12/19/22

#### **Team Management Dashboard**

Availability

Resource Type **Project** 

46	91.30%
Team Distribution	
Support Engineer 4 (8.7%) QA Engineer 4 (8.7%)	Software De 22 (47)
resting 7 ()	
Graphics Designer 9 (19.57%)	

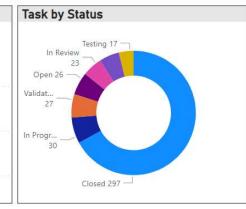
Total Resource

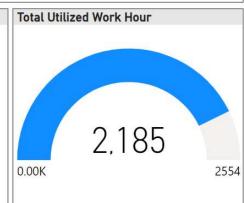
Time Elapsed	
85.54%	

Flags Raised 3

Overall work progress				
		70 Y		
5%	7%	67%		

FL	anned Vs Actual Task by Project
• F	Planned Completion • Actual Completion
Planned Completion and Actual C	12.0K 11.0K 10.9K 10.4K 10K 7.4K 7.4K 7.4K
_	OK Project D Project C Project B Project A  Project_Type





Task Summary by Resource					
Resource	Planned Tasks	Closed Tasks	Utilized Work	Completion%	
Graphics Designer_1	14	14	1	100.00%	
Graphics Designer_2	14	12	3	85.71%	
Graphics Designer_3	1	0	1	0.00%	
QA Engineer_1	8	6	2	75.00%	
Software Developer_1	66	43	5	65.15%	
Software Developer_2	101	74	4	73.27%	
Software Developer_3	110	72	3	65.45%	
Software Developer_4	41	26	3	63.41%	
Software Developer_5	41	19	3	46.34%	
Total	443	297	7	67.04%	



← Go back

Team Management Dash... | Data updated 12/19/22



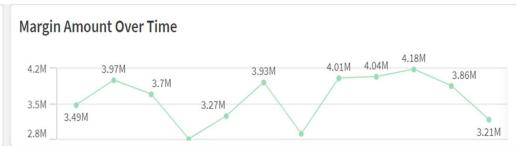
## Sales Dashboards





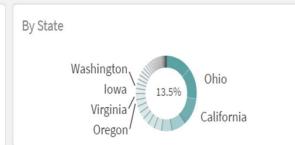
44%





TY vs LY Sales

68%

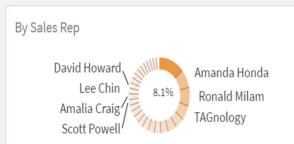


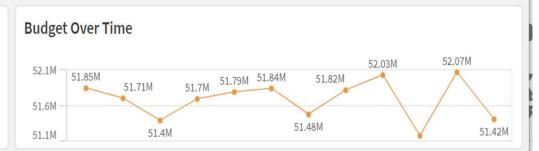
Sales Over Time

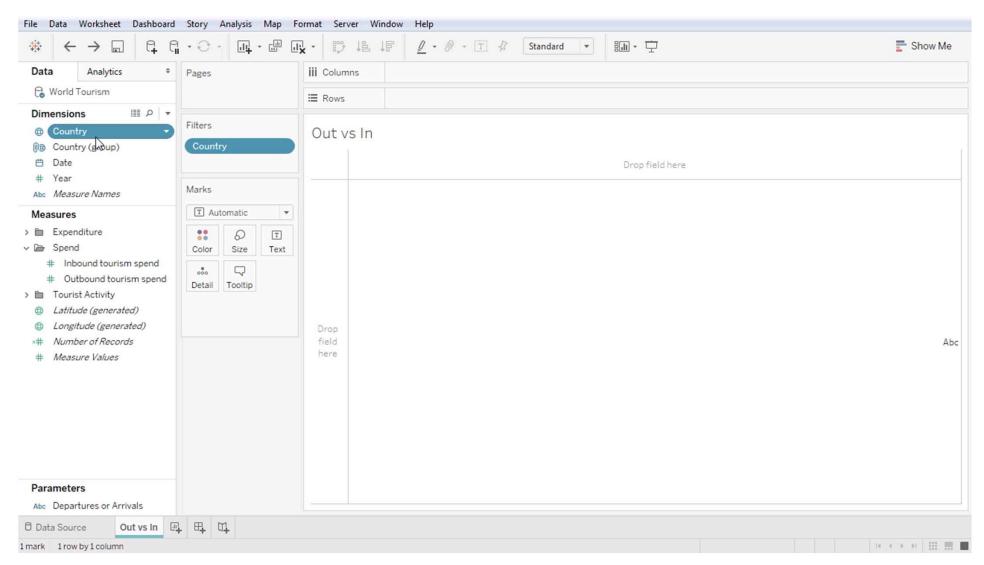


Sales vs Budget %

113%







https://marketplace.atlassian.com/apps/1221150/power-bi-connector-for-jira?hosting=cloud&tab=overview

## Quiz





The winner gets free access (100% discount)
to one of RefineM's products of their choice (listed below) or a free
three-month bundle of all three BI tools self-paced courses
from Lagozon (includes Qlik, PowerBI, and Tableau)

- 1. Essential Gear for Project Managers (\$89)
- 2. PMP Exam Prep Simulator 3 months (\$100)
- 3. Agility Assessment 3 months (\$99)
- 4. PDU Bundle 2 months (\$98)
- 5. Self-Paced Online Courses (\$100 each)
  - a. Agile Fundamentals, or
  - b. Project Management Fundamentals
- Data Analytics Bundled Self-Paced learning Course with 6 modules (Qlik, PowerBI, Tableau, SQL, SSIS DWH, Core Python) – 6 months (\$100)

## Conclusion



Believe it or not. A live dashboard can significantly contribute to project management!!

It's common for project managers to at times manually calculate the completion percentage, track the status of all the to-do items, and monitor the spending. Not to mention that project managers need to make slides and charts to update the status to senior leaders.

It's not just a tool that generates fancy charts. Project managers can adopt the dashboard to monitor project delivery and spending.

When the whole project team — including executors, project managers, and senior leaders — can access the dashboard, it surely contributes to smooth and effective communication.

# **Upcoming Training in Data Analytics**



#### Power BI in a day

#### **Course Details:**

	wnere: Over the wer
Central Time	Format: One full day

Fee: \$295 until 2 weeks before the start date, \$400 afterward

**Group discounts are available up to 30%.** 

**Description:** This 1-day hands-on workshop covers all the capabilities of PowerBI to solve business problems and improve operations. Our hands-on approach helps you arrive at your goals faster, with more confidence, and at your own pace.

Course Objectives: After completing the course, attendees will be able to

- Understand the fundamentals of Data Analytics.
- Connect to, import, and transform data from a variety of sources.
- Define business rules and KPIs.

January 25, 2023, 08:00 - 15:30

Feb 22, 2023, 08:00 - 15:30

Mar 22, 2023, 08:00 - 15:30

- Explore data with powerful visualization tools.
- Build reports with PowerBI.
- Share dashboards with your team and business partners and publish them on the web.

Central Time

Central Time

#### Agenda:

- Introduction to PowerBI
- Import Data into PowerBI
- Explore PowerBI Desktop
- · Building Reports in PowerBI
- Exploring Power Query
- Data Modeling in PowerBI
- Introduction to DAX in PowerBI
- PowerBI Service
- Sample Project: Finance Data Analysis

Who Should Attend: This workshop is ideal for anyone passionate to learn and enhance skills in data analytics.

https://refinem.com/dashboard-in-a-day-powerbi/



## How do I Earn PDU for this Webinar

- 1. Log in to ccrs.pmi.org and Click on "Report PDUs" link.
- 2. Click "Courses and Training" and Input the following:

PDU Claim Code	39908XLRRH	
Activity Name	"Data Analytics for Project Managers"	
Provider	"RefineM LLC"	
Date Started/Completed	January 12, 2023	
Contact Person	NK Shrivastava	
Contact Phone	(417) 763-6762	
Contact Email	<u>Trainings@RefineM.com</u>	
PDUs	1.00 Ways of Working.	

Please claim your PDU by end of January 2023. Claim code will expire after that date.



# **Training Opportunities from RefineM**

Agile Courses	Over the Web
Data Analytics with PowerBI	Feb 14- Feb 17
Backlog Grooming for Agile Requirements	Jan 20
Business Requirements for Agile Projects	Feb 10
Agile Fundamentals	Jan 17- Jan 18
PMI-ACP® Exam Prep	Jan 17- Jan 19
Agile for Waterfall/Operational Work	Feb 17
PMP® Exam Prep	Feb 04- Mar 2
Project Management Fundamentals	Feb 7
Recipe to Deliver Projects Successfully	Feb 3
Agile Leadership	Feb 9
Leadership Skills for Project Managers	Jan 27

### **Contact Us**



- NK Shrivastava, MBA, PMP, RMP, ACP, CSP, SPC4
- CEO/Enterprise Agile Coach, RefineM
- Cary, NC
- nks@refinem.com, www.refinem.com
- http://www.linkedin.com/in/nkshrivastava
- @justrightpm

- Dr. Vipul Vashisht, Ph.D., PMP, ACP, RMP, CSM, SAFe
- Co-founder and CEO Lagozon Technologies
- New Delhi, India
- Vipul@lagozon.com | www.lagozon.com
- https://www.linkedin.com/in/vipulvashisht/
- @vipulvashisht