Module 04: Lab 01

Visual Reporting and Storytelling

```
VISUALIZATION PLOTLY SPARK VISUAL REPORTING STORYTELLING WITH DATA INDUSTRY-SPECIFIC VISUALIZATION

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Modified
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```

Objectives

By the end of this lab, you will: 1. Load and analyze the Lightcast dataset in Spark DataFrame. 2. Create five easy and three medium-complexity visualizations using Plotly. 3. Explore salary distributions, employment trends, and job postings. 4. Analyze skills in relation to NAICS/SOC/ONET codes and salaries. 5. Customize colors, fonts, and styles in all visualizations (default themes result in a 2.5-point deduction). 6. Follow best practices for reporting on data communication.

Step 1: Load the Dataset

```
import pandas as pd
import plotly.express as px
import plotly.io as pio
pio.renderers.default = "vscode"
from pyspark.sql import SparkSession
from pyspark.sql.functions import col

# Initialize Spark Session
spark = SparkSession.builder.appName("LightcastData").getOrCreate()

# Load Data
df = spark.read.option("header", "true").option("inferSchema", "true").option("multiLine","true").option("escape", "\"").csv("/hc

# Show Schema and Sample Data
df.printSchema()
df.show(5)
```

```
Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

25/03/21 23:16:24 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

25/03/21 23:16:25 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.

25/03/21 23:16:39 WARN SparkStringUtils: Truncated the string representation of a plan since it was too large. This behavior can be adjusted by setting 'spark.sql.debug.maxToStringFields'.
```

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|-- MIN_EDULEVELS_NAME: string (nullable = true)
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 |-- NAICS_2022_5: integer (nullable = true)
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MIN_EDULEVELS_NAME | MAX_EDULEVELS | MAX_EDULEVELS_NAME | EMPLOYMENT_TYPE | EMPLOYMENT_TYPE_NAME | MIN_YEARS_EXPERIENCE | MAX_YEARS_EXPERIENCE | IS_INT
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SOC_2021_2_NAME | SOC_2021_3 |
SOC_2021_3_NAME|SOC_2021_4|SOC_2021_4_NAME|SOC_2021_5|SOC_2021_5_NAME|LOT_CAREER_AREA|LOT_CAREER_AREA_NAME|LOT_OCCUPATION|
LOT_OCCUPATION_NAME|LOT_SPECIALIZED_OCCUPATION|LOT_SPECIALIZED_OCCUPATION_NAME|LOT_OCCUPATION_GROUP|LOT_OCCUPATION_GROUP_NAME|LOT_V6_SPEC
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                                                                                          SOC_3_NAME| SOC_4|
GROUP_NAME|LOT_V6_CAREER_AREA|LOT_V6_CAREER_AREA_NAME| SOC_2|
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         SOC_5_NAME|LIGHTCAST_SECTORS|LIGHTCAST_SECTORS_NAME|NAICS_2022_2| NAICS_2022_2_NAME|NAICS_2022_3|
NAICS_2022_3_NAME|NAICS_2022_4| NAICS_2022_4_NAME|NAICS_2022_5| NAICS_2022_5_NAME|NAICS_2022_6| NAICS_2022_6_NAME|
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441|Motor Vehicle and...| 4413|Automotive Parts,...|
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        12300|Augusta-Watervill...| 12300|Augusta-Watervill...| 56|Administrative an...| 561|Administrative an...| 5613|
Employment Services| 56132|Temporary Help Se...|561320|Temporary Help Se...|ET21DDA63780A7DC09| Oracle Consultants|oracle consultant...|
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Scientists|15-2051|Data Scientists| NULL| NULL| 56|Administrative an...| an...| 5613| Employment Services| 56132|Temporary Help Se...| 561320|Temporary Help Se...|
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|85318b12b3331fa49...| \qquad 9/6/2024| \ \ 2024-09-06 \ \ 20:32:...| \qquad 1|6/2/2024| \ \ 7/7/2024| \qquad 35| \ [\n \ "Job Board"\n]|[\n \ \]
"dejobs.org"\n]|[\n "https://dej...| []|
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19100|Dallas-Fort Worth...| 19100|Dallas-Fort Worth...| 52|Finance and Insur...| 524|Insurance Carrier...| 5242|Agencies,
Brokera...| 52429|Other Insurance R...|524291| Claims Adjusting|ET3037E0C947A02404| Data Analysts| data analyst|[\n
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"KS1218W78FG...|[\n "Management"...|[\n "KS126HY6YLT...|[\n "Microsoft 0...|15-2051.01|Business Intellig...| []| []| []|
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        38060|Phoenix-Mesa-Chan...| 52|Finance and Insur...| 522|Credit Intermedia...|
5221|Depository Credit...| 52211| Commercial Banking|522110| Commercial Banking|ET2114E0404BA30075|Management Analysts|sr lead data mgmt...|[\n "KS123QX62QY...|[\n "Exit Strate...| []|
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522|Credit Intermedia...|
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         9999|Unclassified Indu...|
                                          99999|Unclassified Indu...|
                                                                      999999|Unclassified Indu...|
only showing top 5 rows
```

1 Salary Distribution by Employment Type

- Identify salary trends across different employment types.
- Filter the dataset
 - Remove records where salary is missing or zero.
- Aggregate Data
 - Group by employment type and compute salary distribution.
- Visualize results
 - Create a **box plot** where:
 - X-axis = EMPLOYMENT_TYPE_NAME
 - Y-axis = SALARY_FROM
 - Customize colors, fonts, and styles to avoid a 2.5-point deduction.
- Explanation: Write two sentences about what the graph reveals.

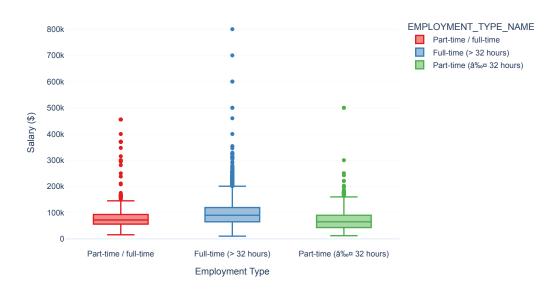
```
pio.renderers.default = "notebook"
# 1. Filter dataset: Remove missing or zero salaries
df_filtered = df.filter((col("SALARY_FROM").isNotNull()) & (col("SALARY_FROM") > 0))
# 2. Convert to Pandas DataFrame for visualization
pdf = df_filtered.select("EMPLOYMENT_TYPE_NAME", "SALARY_FROM").toPandas()
# 3. Create Box Plot using Plotly
fig = px.box(
   pdf,
   x="EMPLOYMENT_TYPE_NAME",
   y="SALARY FROM",
   title="Salary Distribution by Employment Type",
   color="EMPLOYMENT_TYPE_NAME",
   color_discrete_sequence=px.colors.qualitative.Set1 # Custom colors
# 4. Customize visualization
fig.update_layout(
    font family="Arial",
   title_font_size=18,
   xaxis_title="Employment Type",
```

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```
yaxis_title="Salary ($)",
  template="plotly_white" # Use a white background
)

# 5. Show the plot
fig.show()
fig.write_image("output/Salary_Distribution_by_Employment_Type.svg")
```

Salary Distribution by Employment Type



Key Insights

- Full-time employees (> 32 hours) generally have a higher median salary than part-time workers, but there is significant variation with many outliers at the upper end of the salary range.
- Part-time employees (< 32 hours) and those classified as both part-time/full-time tend to have lower median salaries, with a more concentrated salary distribution and fewer extreme outliers.
- This suggests that working full-time is generally associated with higher salaries, but there are some high-earning outliers across all employment types.

2 Salary Distribution by Industry

- · Compare salary variations across industries.
- · Filter the dataset
 - o Keep records where salary is greater than zero.
- Aggregate Data
 - o Group by NAICS industry codes.
- Visualize results
 - Create a **box plot** where:
 - X-axis = NAICS2_NAME
 - Y-axis = SALARY_FROM
 - o Customize colors, fonts, and styles.
- Explanation: Write two sentences about what the graph reveals.

```
from pyspark.sql.functions import col
import pandas as pd
import plotly.express as px

# 1. Filter dataset: Remove missing or zero salaries
df_filtered = df.filter((col("SALARY_FROM").isNotNull()) & (col("SALARY_FROM") > 0))

# 2. Convert to Pandas DataFrame for visualization
pdf = df_filtered.select("NAICS2_NAME", "SALARY_FROM").toPandas()
```

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df_filtered.show(10, False)
# 3. Sort industries by median salary to improve visualization
median\_salary = pdf.groupby("NAICS2\_NAME")["SALARY\_FROM"].median().sort\_values(ascending=False)
\verb|pdf|"NAICS2\_NAME"| = \verb|pd.Categorical(pdf|"NAICS2\_NAME"]|, categories=median\_salary.index, ordered=True)|
# 4. Create Box Plot with Adjustments
fig = px.box(
   pdf,
    x="NAICS2_NAME",
   y="SALARY_FROM",
    title="Salary Distribution by Industry (NAICS2)",
    color="NAICS2_NAME",
   color_discrete_sequence=px.colors.qualitative.Set2
# 5. Customize visualization for better spacing and readability
fig.update_layout(
    font_family="Arial",
   title_font_size=18,
   xaxis_title="Industry (NAICS2)",
    yaxis_title="Salary ($)",
    template="plotly_white",
    xaxis_tickangle=-45,
   width=1200,
    height=600
# 6. Reduce marker size to prevent overcrowding
fig.update_traces(marker=dict(size=3, opacity=0.5))
# 7. Show the plot
fig.show()
fig.write_image("output/Salary Distribution by Industry (NAICS2).svg")
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                                |SR Lead Data Analyst
                                                                                                              |About Lumen\n\nLumen
connects the world. We are igniting business growth by connecting people, data and applications - quickly, securely, and effortlessly.
Together, we are building a culture and company from the people up – committed to teamwork, trust and transparency. People power
progress.\n\nLumen's commitment to workplace inclusion and employee support shines bright. We've made the Newsweek 2024 Greatest
Workplaces for Diversity list and achieved a perfect score of 100 on the Human Rights Campaign Corporate Equality Index (CEI) for the
fifth consecutive year. Plus, we're the top employer in the communications and telecom industry, ranking 12th overall across all
industries in The American Opportunity Index.\n\nWe're looking for top-tier talent and offer the flexibility you need to thrive and
deliver lasting impact. Join us as we digitally connect the world and shape the future.\n\nThe Role\n\nThe Senior Lead Data Analyst has
responsibility for data, reporting, metrics, and analytics within the Mass Markets Dispatch Operations organization at Lumen. This role
will support the Business Intelligence Manager and Analytics team with analysis, reporting, and solutioning activities. They will provide
quidance to the business on short- and long-term decisions and help drive performance improvements.\n\nLocation and Schedule\n\nThis is a
Work From Home position in the United States.\n\nThe Main Responsibilities\n\n Provides business analysis and support for Mass Markets
Dispatch Operations teams\n\n Creates ad-hoc reports along with creation and presentation of quality dashboards that provide operational
visibility to the business unit(s)\n\n Defines and provides data evidence to support business cases and quantify business opportunities
for optimization\n\n Defines the data gathered and determines patterns pertaining to key performance indicators (KPIs) and business
challenges\n\n Defines and provides data to support 'control' of delivered solutions (value realization)\n\n Develops high quality
graphs, reports, and presentations of data results\n\n Performs statistical analyses when needed\n\n Identifies, analyzes, and interprets
trends or patterns in sometimes complex data sets\n\n Presents standard data sets and information in an understandable and compelling
manner\n\n Executes different data analytics to ensure the completeness, quality, and consistency of data used for analytics across
systems\n\n Identifies, analyzes, documents, and improves existing business processes\n\n Confirms business assumptions with data driven
facts\n\n Collaborates with all Mass Markets Dispatch Operations teams on data, results, and findings\n\nWhat We Look For in a
Candidate\n\n Demonstrated ability in developing complex automated Business Intelligence solutions using software such as Power BI,
QlikSense, Tableau, or Looker\n\n PL/SQL experience\n\n Database Management Systems experience such as Oracle, Microsoft SQL Server, or
Snowflake\n\n Python development experience\n\n Extract, Transfer, Load (ETL) experience\n\n Combined IT and Business Operations
background\n\n Bachelor's Degree preferred, or equivalent combination of education, training, and experience\n\n Fireworks/Bidmaster
experience\n\n VBA/BASH/PHP development experience\n\nCompensation\nThe starting salary for this role differs based on the employee's
primary work location. Employees typically do not start at the top of the range, though compensation depends on each individual's
qualifications.\n\nLocation Based Pay Ranges\n\n$94420 - $125890 in these states: AR, ID, KY, LA, ME, MS, NE, SC, and SD.\n\n$99390 -
$132510 in these states: AZ, AL, FL, GA, IN, IA, KS, MO, MT, NM, ND, OH, OK, PA, TN, UT, VT, WV, WI, and WY.\n\n$104360 - $139140 in
these states: CO, HI, MI, MN, NV, NH, NC, OR, and RI.\n\n$109330 - $145770 in these states: AK, CA, CT, DE, DC, IL, MD, MA, NJ, NY, TX,
VA, and WA.\n\nAs with the pay range variety that's based on the region of a country, specific offers are determined by various factors
such as experience, education, skills, certifications and other business needs.\n\nWhat to Expect Next\n\nRequisition #:
333643\n\nBackground Screening\n\nIf you are selected for a position, there will be a background screen, which may include checks for
criminal records and/or motor vehicle reports and/or drug screening, depending on the position requirements. For more information on
these checks, please refer to the Post Offer section of our FAQ page (https://jobs.lumen.com/global/en/faq) . Job-related concerns
identified during the background screening may disqualify you from the new position or your current role. Background results will be
evaluated on a case-by-case basis.\n\nPursuant to the San Francisco Fair Chance Ordinance, we will consider for employment qualified
applicants with arrest and conviction records \n\nEqual Employment Opportunities\n\nWe are committed to providing equal employment
opportunities to all persons regardless of race, color, ancestry, citizenship, national origin, religion, veteran status, disability,
genetic characteristic or information, age, gender, sexual orientation, gender identity, gender expression, marital status, family
status, pregnancy, or other legally protected status (collectively, protected statuses). We do not tolerate unlawful discrimination in
any employment decisions, including recruiting, hiring, compensation, promotion, benefits, discipline, termination, job assignments or
training.\n\nDisclaimer\n\nThe job responsibilities described above indicate the general nature and level of work performed by employees
within this classification. It is not intended to include a comprehensive inventory of all duties and responsibilities for this job. Job
duties and responsibilities are subject to change based on evolving business needs and conditions.\n\nSalary Range\n\nSalary Min
:\n\n94420\n\nSalary Max :\n\n145770\n\nThis information reflects the anticipated base salary range for this position based on current
national data. Minimums and maximums may vary based on location. Individual pay is based on skills, experience and other relevant
factors.\n\nThis position is eligible for either short-term incentives or sales compensation. Director and VP positions also are eligible
for long-term incentive. To learn more about our bonus structure, you can view additional information here.
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(https://jobs.lumen.com/global/en/compensation-information) We're able to answer any additional questions you may have as you move
through the selection process.\n\nAs part of our comprehensive benefits package, Lumen offers a broad range of Health, Life, Voluntary
Lifestyle and other benefits and perks that enhance your physical, mental, emotional and financial wellbeing. You can learn more by
clicking here. (https://centurylinkbenefits.com)\n\nNote: For union-represented postings, wage rates and ranges are governed by
applicable collective bargaining agreement provisions.\n\nApplication Deadline\n\n06/05/2024
16/12/2024
                   |10
                                        |2233642 |Lumen Technologies
                                                                                                                                                    |[\n 2\n]
                                                                                        Lumen
                                                                                                                           |false
                                                                                                              |Bachelor's degree |NULL
[[\n "Bachelor's degree"\n]
                                                                                                                                                        INULL
                   |Full-time (> 32 hours)|NULL
                                                                          |NULL
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                                                                                                             |[Unknown county], AR|5999
                                                                                                                                                          | [Unknown
county], AR|NULL
                             NULL
                                                                            NULL
                                                                                            INULL
                                                                                                                                       |51
                                                                                                                                               |Information
|517 |Telecommunications
                                                                                                                    |5178 |All Other Telecommunications
|51781 |All Other Telecommunications
                                                                             |517810|All Other Telecommunications
                                                             |sr lead data analyst
|ET95DB859B53CCACA7|Lead Data Analysts
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|[\n "Power BI",\n "Presentations",\n "Data Reporting",\n "Qlik Sense (Data Analytics Software)",\n "Business Analysis",\n
"Business Process",\n "PHP Development",\n "Python (Programming Language)",\n "Dashboard",\n "Key Performance Indicators (KPIs)",\n
"Looker Analytics",\n "Microsoft SQL Servers",\n "PL/SQL",\n "Database Management Systems",\n "Visual Basic For Applications",\n
"Business Intelligence",\n "Operations",\n "Data Analysis",\n "Business Operations",\n "Ad Hoc Reporting",\n "Extract Transform Load
(ETL)",\n "Bash (Scripting Language)",\n "Tableau (Business Intelligence Software)"\n]
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Servers",\n "PL/SQL",\n "Database Management Systems",\n "Visual Basic For Applications",\n "Business Intelligence",\n "Data
Analysis",\n "Business Operations",\n "Ad Hoc Reporting",\n "Extract Transform Load (ETL)",\n "Bash (Scripting Language)",\n
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|[\n "Business, Management, Marketing, and Related Support Services"\n]
| 15-0000 | Computer and Mathematical Occupations | 15-2000 | Mathematical Science Occupations | 15-2050 | Data Scientists | 15-2051 | Data
                                                                                                       |Data / Data Mining Analyst
Scientists 23
                               |Information Technology and Computer Science|231113
|Data Analyst
                                        |2311
                                                                  |Data Analysis and Mathematics |23111310
                                                                                                                                              |Data Analyst
|231113
                      |Data / Data Mining Analyst
                                                                                                  |Data Analysis and Mathematics |23
                                                                    |2311
|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
2050|Data Scientists|15-2051|Data Scientists|NULL
                                                                            INULL
                                                                                                                      |51
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                                                                                                                           15178
                                                                                                                                           |All Other
               |Telecommunications
Telecommunications
                                                                          |All Other Telecommunications
                                                         |51781
                                                                                                                                              |517810
                                                                                                                                                              |All
Other Telecommunications
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                                                                                                                                                     I [\n
                                                       |[\n "3ds.com"\n]
"https://www.3ds.com/careers/jobs/sr-marketing-analyst-539163"\n]
                                                                                                                                      |Sr. Marketing
                                       ISr. Marketing Analyst
Analyst\nUnited States, NY, New York\nRegular\n5/9/2024\n539163\nAbout our Company:\nMedidata: Powering Smarter Treatments and Healthier
People\nMedidata, a Dassault Systmes company, is leading the digital transformation of life sciences, creating hope for millions of
people. Medidata helps generate the evidence and insights to help pharmaceutical, biotech, medical device and diagnostics companies, and
academic researchers accelerate value, minimize risk, and optimize outcomes. More than one million registered users across 2,000+
customers and partners access the world's most trusted platform for clinical development, commercial, and real-world data. Known for its
groundbreaking technological innovations, Medidata has supported more than 30,000 clinical trials and 9 million study participants.
Medidata is headquartered in New York City and has offices around the world to meet the needs of its customers. Discover more at
www.medidata.com and follow us on LinkedIn, Instagram, and X.\nAbout the Role:\nAs the Sr. Marketing Analyst, your core responsibility is
to support Marketing teams by conducting analyses, providing insights and identifying operational enhancements that will improve the
efficiency and effectiveness of marketing programs through the marketing funnel. You will interact with various marketing teams, IT and
external agencies and provide insights on factors that can help drive business growth, enhance customer identification, increase customer
engagement and generate opportunities. You must be a strategic thinker with strong analytical and technical skills and can make
recommendations based on data insights.\nResponsibilities:\nCreates weekly, monthly and/or quarterly marketing reports as well as ad hoc
analysis on time\nUses a data driven approach to assess campaign performance, develops measurement framework & tracks KPIs, and optimizes
future campaign tactics\nLeverages key tools and business knowledge to conduct various analyses and identifies patterns in the data; uses
data mining, model building and other analytical techniques to develop and maintain data visualizations\nPerforms exploratory data
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findings for better understanding and buy-in\nIndependently work on analytical projects involving large amounts of data, statistical modeling / machine learning\nPerform and share analyses to guide decision-making and participate in and support interactions within Medidata to collect business requirements and drive analysis buy-in; develop alternative methods of analyzing marketing performance and opportunities for new campaign approaches and techniques\nCoordinate and assist in the analysis design, optimize existing analytical process to improve efficiency and effectiveness\nWork across an interdisciplinary team to prioritize and coordinate tasks, monitor progress and issues, and facilitate team meetings\nTranslate and summarize technical and analytical information for business audiences and develop stories that help address business problems\nQualifications:\nMinimum 2 - 4 years of experience in business analytics, operations, or related role; prior experience within life science or technology industries is a plus but not required\nThe minimum education level required is a Bachelor's degree. Master's degree preferred.\nAcceptable fields of study: Economics, Business Administration, Statistics, Data Science, Computer Science, Marketing, Management Information Systems, Operations Research, Mathematics or related fields\nFamiliarity with analytics concepts such as databases, programming, statistical modeling, machine learning, data visualization\nAdvanced skills in MS Office, specifically PowerPoint, Excel and Word as well as the Google Productivity Suite (Google Sheets, Google Slides, Google Docs)\nExperience with SQL and R, SAS or Python. Also comfortable using Google Analytics and building dashboards in Data Studio and/or Tableau, and have some knowledge of CRM tools such as Salesforce.\nThe salary range posted below refers only to positions that will be physically based in New York City / New Jersey. As with all roles, Medidata sets ranges based on a number of factors including function, level, candidate expertise and experience, and geographic location. Pay ranges for candidates in locations other than New York City / New Jersey, may differ based on the local market data in that region. The base salary pay range for this position is \$79,500 to \$106,424.\nBase pay is one part of the Total Rewards that Medidata provides to compensate and recognize employees for their work. Most sales positions are eligible for a commission on the terms of applicable plan documents, and many of Medidata's nonsales positions are eligible for annual bonuses. Medidata believes that benefits should connect you to the support you need when it matters most and provides best-in-class benefits, including medical, dental, life and disability insurance; 401(k) matching; flexible paid time off; and 10 paid holidays per year.\nEqual Employment Opportunity:\nIn order to provide equal employment and advancement opportunities to all individuals, employment decisions at Medidata are based on merit, qualifications and abilities. Medidata is committed to a policy of non-discrimination and equal opportunity for all employees and qualified applicants without regard to race, color, religion, gender, sex (including pregnancy, childbirth or medical or common conditions related to pregnancy or childbirth), sexual orientation, gender identity, gender expression, marital status, familial status, national origin, ancestry, age, disability, veteran status, military service, application for military service, genetic information, receipt of free medical care, or any other characteristic protected under applicable law. Medidata will make reasonable accommodations for qualified individuals with known disabilities, in accordance with applicable law.\nApplications will be accepted on an ongoing basis until the position is filled.\nMedidata follows a hybrid office policy in which employees who are hired for an in-person are expected to work on site a certain number of days per week (with the specific in-office days to be designated by your team). On July 8, 2024, such employees will be expected to work on site at least 2 days per week. This will increase to at least 3 days per week beginning January 2, 2025.\n#LI-MW1\n#LI-Hvbrid 18/1/2024 NULL |39016169|Dassault Systèmes |Dassault Systmes $\lfloor n 2, n 3 \rfloor$ |false |[\n "Bachelor's degree",\n "Master's degree"\n] |Bachelor's degree |3 |Master's |Full-time (> 32 hours)|2 |2 |92962 |0 | [None] degree Ifalse |1 |{\n "lat": 40.7501,\n "lon": -73.997\n} |year |106424 |79500 |TmV3IFlvcmssIE5Z |New York, NY |36061 |New York, NY |35620|New York-Newark-Jersey City, NY-NJ-PA|36 |New York |36061 |New York, NY |36061 |New York, NY |New York-Newark-Jersey City, NY-NJ-PA|35620 |35620 |New York-Newark-Jersey City, NY-NJ|54 |Professional, Scientific, and Technical Services |Professional, Scientific, and Technical Services|541 |5415 | Computer Systems Design and Related Services |54151 | Computer Systems Design and Related Services |541511|Custom Computer Programming Services |ET1CE3CFA5447376E9|Marketing Analysts marketing analyst |[\n "KS4407N6CMTCYT0NYSVM",\n "KS1247H7701DW05BS80N",\n "KS1282Z79SMZM4TBF3QJ",\n "ESF89AEE81B5AFAC2268",\n "KS7G747655VG23WXMS9B",\n "KS1218C6MP9RN7WXMM37",\n "ES93374D273ED49FAFEA",\n "KS7L08P3MXB93R3C9RWL",\n "KS127ZG6DBSF76WF7VYX",\n "KS122B568MKWX1K9STGP",\n "KS122PL70D99VRWMFM2T",\n "KS440Y660Z713RJ4FQCH",\n "KS120GV6C72JMSZKMTD7",\n "KS124F463KMJQGJ9DGGV",\n "KS125LS6N7WP4S6SFTCK",\n "BGSF37E50145BF89644B",\n "KS1265M698X7BRS20SWP",\n "KS1218L60PDVZX16NZT1",\n "KS1265D6RGJL2Y4J6V5B",\n "KS1227D60Q7225FTK55V",\n "KS120GV5ZXR64CJLL1J4",\n "KS121W46CJXQ5ZQ506MS",\n "KS126706DPFD3354M7YK",\n "KS440Y975RD841M02V3S",\n "KS1206R6J3HDQV8PPC87",\n "KS1261Z68KSKR1X31KS3",\n "KS1219863VWXPRZL5LG2".\n "KS124QR6F19BX4WPMW1H",\n "KS127D361PF0FTXDZ7C4",\n "KS125MK6L8XN70ZS40ZY",\n "KS440W865GC4VRBW6LJP",\n "KS1265L70H9YLN04L9JX",\n "KS126HY6YLTB9R7XJC4Z",\n "KS1200H6XYN1CR0G5NZ0",\n "KS4409D76NW1S5LNCL18",\n "KS1217P66NK6BW72M9FH",\n "KS1239W60ZKL1H0TF1TJ".\n "KS1218B62M9QRBY8WRSK",\n "KS120GT79SSWNBB5T99H",\n "KS122Q960QYMW3YH0YWF",\n "KS441626TDSV2J6GBB86",\n "KS1226Y6DNDT05G7FJ4J",\n "KS124DQ6JX0NX9DBFDM8"\n] |[\n "Salesforce",\n "Google Docs",\n "Productivity Software",\n "Google Slides",\n "Prioritization",\n "Business Analytics",\n "Google Sheets",\n "Customer Engagement",\n "Data Mining",\n "Data Science",\n "Microsoft PowerPoint",\n "Statistical Modeling",\n "Data Analysis",\n "Google Analytics",\n "Python (Programming Language)",\n "Ad Hoc Analysis",\n "Marketing Management",\n "Dashboard",\n "Market Research",\n "Information Systems",\n "Analytics",\n "Decision Making",\n "Mathematics",\n "Statistics",\n "Operations Research",\n "Machine Learning",\n "Business Requirements",\n "Marketing",\n "Operations",\n "Key Performance Indicators (KPIs)",\n "SQL (Programming Language)",\n "Marketing Performance Measurement And Management",\n "Microsoft Office",\n "Microsoft Excel",\n "SAS (Software)",\n "Customer Relationship Management",\n "Economics",\n "Business Administration",\n "Analytical Techniques",\n "Data Visualization",\n "Tableau (Business Intelligence Software)",\n "Computer Science",\n "R (Programming Language)"\n] [[\n "KS4407N6CMTCYT0NYSVM",\n "KS1247H7701DW05BS80N",\n "KS1282Z79SMZM4TBF3QJ",\n "ESF89AEE81B5AFAC2268",\n "KS1218C6MP9RN7WXMM37",\n "KS122B568MKWX1K9STGP",\n "KS122PL70D99VRWMFM2T",\n "KS7L08P3MXB93R3C9RWL",\n "KS440Y66QZ713RJ4FQCH",\n "KS120GV6C72JMSZKMTD7",\n "KS124F463KMJQGJ9DGGV",\n "KS125LS6N7WP4S6SFTCK",\n "BGSF37E50145BF89644B",\n "KS1265M698X7BRS20SWP",\n "KS1218L60PDVZX16NZT1",\n "KS1265D6RGJL2Y4J6V5B",\n "KS1227D60Q7225FTK55V",\n "KS120GV5ZXR64CJLL1J4",\n "KS440Y975RD841M02V3S",\n "KS1206R6J3HDQV8PPC87",\n "KS1261Z68KSKR1X31KS3",\n "KS1219863VWXPRZL5LG2",\n "KS124QR6F19BX4WPMW1H",\n "KS125MK6L8XN70ZS40ZY",\n "KS440W865GC4VRBW6LJP",\n "KS1265L70H9YLN04L9JX",\n "KS4409D76NW1S5LNCL18",\n "KS1217P66NK6BW72M9FH",\n "KS1239W6QZKL1H0TF1TJ",\n "KS120GT79SSWNBB5T99H",\n "KS122Q960QYMW3YH0YWF",\n "KS441626TDSV2J6GBB86",\n "KS122GY6DNDT05G7FJ4J",\n "KS124DQ6JX0NX9DBFDM8"\n] |[\n "Salesforce",\n "Google Docs",\n "Productivity Software",\n "Google Slides",\n "Business Analytics",\n "Customer . Engagement",\n "Data Mining",\n "Data Science",\n "Statistical Modeling",\n "Data Analysis",\n "Google Analytics",\n "Python (Programming Language)",\n "Ad Hoc Analysis",\n "Marketing Management",\n "Dashboard",\n "Market Research",\n "Information Systems",\n "Analytics",\n "Statistics",\n "Operations Research",\n "Machine Learning",\n "Business Requirements",\n "Marketing",\n "Key Performance Indicators (KPIs)",\n "SQL (Programming Language)",\n "Marketing Performance Measurement And Management",\n "SAS (Software)",\n "Customer Relationship Management",\n "Economics",\n "Analytical Techniques",\n "Data Visualization",\n "Tableau (Business Intelligence Software)",\n "Computer Science",\n "R (Programming Language)"\n]

analyses using first-party, second-party and 3rd party data sources; turns data and analysis into actionable insights and communicates

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111
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"KS440W865GC4VRBW6LJP",\n "KS126HY6YLTB9R7XJC4Z",\n "KS1200H6XYN1CR0G5NZ0",\n "KS4409D76NW1S5LNCL18",\n "KS441626TDSV2J6GBB86",\n
"KS124DQ6JX0NX9DBFDM8"\n]|[\n "Salesforce",\n "Google Docs",\n "Productivity Software",\n "Google Slides",\n "Google Sheets",\n
"Microsoft PowerPoint",\n "Google Analytics",\n "Python (Programming Language)",\n "Dashboard",\n "SQL (Programming Language)",\n
"Microsoft Office",\n "Microsoft Excel",\n "SAS (Software)",\n "Tableau (Business Intelligence Software)",\n "R (Programming
Language)"\n]|15-2051.01|Business Intelligence Analysts|15-2051.01|Business Intelligence Analysts|[\n "52.0101",\n "45.0601",\n
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Analytics"\n]|[\n "52",\n "45",\n "11",\n "30"\n]|[\n "Business, Management, Marketing, and Related Support Services",\n "Social
Sciences",\n "Computer and Information Sciences and Support Services",\n "Multi/Interdisciplinary Studies"\n]|15-0000
Mathematical Occupations|15-2000 |Mathematical Science Occupations|15-2050 |Data Scientists|15-2051 |Data Scientists|23
|Information Technology and Computer Science|231113
                                                         |Data / Data Mining Analyst
                                                                                              |23111310
                                                                                                                        IData Analyst
                    |Data Analysis and Mathematics |23111310
                                                                                |Data Analyst
                                                                                                                  |231113
|Data / Data Mining Analyst
                                    12311
                                                            |Data Analysis and Mathematics |23
                                                                                                             |Information Technology
and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-2050|Data Scientists|15-
                                                                                  |Professional, Scientific, and Technical
2051|Data Scientists|[\n 7\n]
                                    |[\n "Artificial Intelligence"\n]|54
                    |Professional, Scientific, and Technical Services
                                                                                                         |5415
                                                                                                                      |Computer
                                                           |Computer Systems Design and Related Services
Systems Design and Related Services
                                              154151
                                                                                                                              ICustom
Computer Programming Services
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"Government",\n "Company",\n "Job Board"\n]|[\n "dcscorp.com",\n "latpro.com",\n "ca.gov"\n]
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Clearance Level\n\nTop Secret\n\tRemote\n\nNo\nJob Description\n\nSalary Range: $91,559 - $123,732\n\nThe F-18 Integrated Product Team
(IPT) at NAWCWD China Lake has an opening for a Data Analyst (DA). The team member will be working in a dynamic environment and will be
responsible for analyzing data, creating analysis tools, and reporting test results of F/A 18 E/F Integration testing.\n\nEssential Job
Functions:\n\nThe DA will support technical engineering reviews, understand system requirements, learn the technical details of the F/A
18 E/F Integration effort, and apply that knowledge to help execute a dynamic test program.\n\nActively participate in test planning of
ground, laboratory, and flight test events to ensure decision quality test data is collected.\n\nPerform timely and accurate analysis to
support decision authorities. The ideal candidate will have analysis experience in aircraft Mux, 1553, and Fibre data.\n\nInterface with
other government agencies and work with contractors on acquisition programs to assure that the Navy's interests are met.\n\nDesign data
analysis processes to assess the performance of various systems and system concepts over development cycles.\n\nDevelop requirements for
test scenarios and associated documentation in flight cards.\n\nReview system level documentation and provides changes and
recommendations.\n\nDevelop test methods for evaluating performance and designs test scenario(s) to yield valid and measurable
quantitative test results.\n\nUtilize scripting languages to manipulate and draw conclusions from large data sets.\n\nDevelop data
analysis tools to streamline and automate data analysis, processing, and reporting.\n\nDevelop test support, instrumentation, and data
recording requirements to facilitate collection of critical flight test data.\n\nAssess and resolve engineering issues real time during
test missions.\n\nAnalyzes test data (real-time and post-mission) to understand test results, draws conclusions and assess mission
results.\n\nParticipate in pre- and post-test briefings and advise on system troubleshooting and behavior.\n\nCommunicate test results
verbally and in writing to technical and non-technical audiences.\n\nLeverage analytical studies to evaluate and advise on system
architecture or potential alternative solutions.\n\nReport systems performance in official Navy T&E reports. Reports such as Daily Test
Summaries, Naval Message Report, DT/OT Transition report, Summary Report, RTR, Deficiency Report.\n\nSupport laboratory and flight
testing.\n\nTravel may be desired of the incumbent but is not a requirement for this position.\n\nRequired Skills:\n\nDue to the
sensitivity of customer related requirements, U.S. Citizenship is required.\n\nBachelor's degree in an engineering discipline with 8 plus
years of experience in flight test and/or Aircraft Platforms and Weapons. Will also consider candidates with high school diploma and 16+
years of experience in flight test and/or Aircraft Platforms and Weapons or an associate degree with 10+ years of experience in flight
test and/or Aircraft Platforms and Weapons.\n\nExcellent communication skills and able to liaison with outside agencies and ability to
work independently.\n\nMust demonstrate an ability to analyze and interpret multiple technical data sets, and organize/present data into
tables, charts, graphs to support program requirements.\n\nAbility to learn how to use multiple data analysis tools and software packages
for data reduction and display.\n\nExperience with coding in MatLab and visual basic to develop new analysis tools and/or modify existing
MatLab, Python and Excel tools.\n\nBasic understanding test plans, and Detailed Methods of Test for all weapons systems undergoing
initial integration or regression testing on the F/A-18 aircraft.\n\nAble to multitask, prioritize, and manage time
efficiently.\n\nPossess high moral character and integrity.\n\nAbility to acquire and obtain Top Secret Clearance.\n\nDesired
Skills:\n\nFamiliarization with Agile and the ability to work within small groups or Scrum teams.\n\nJob Requirements\n6300
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142
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                                                                                                       |Data / Data Mining Analyst
Scientists 123
|Data Analyst
                                        |2311
                                                                 |Data Analysis and Mathematics |23111310
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                      |Data / Data Mining Analyst
                                                                                                |Data Analysis and Mathematics |23
1231113
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|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
2050|Data Scientists|15-2051|Data Scientists|NULL
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1423
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Renewables Consulting Manager, Enterprise Asset Management Deloitte - 3.9 Detroit, MI Job Details Full-time Estimated: $142K - $179K a
year 7 hours ago Qualifications Microsoft Powerpoint Microsoft Word Asset management Microsoft Excel 6 years Maximo C++ Bachelor's degree
JavaScript SharePoint Service-oriented architecture Leadership Python GIS Full Job Description What we do Operations and Technology
Transformation delivers market leading expertise and industry depth by harnessing deep sector knowledge, scaling the power of hybrid
services and products, and unlocking the power of Process Bionics to deliver sustainable and impactful solutions to our clients. We
advise, design, implement, and deploy innovative and technology enabled solutions focused on "heart of the business" issues in specific
sectors including Health Care & Life Sciences, Digital Banking & Payments, Investment & Wealth Management, Insurance, Telecom, Media and
Energy & Resources. Our OTT team brings clients the knowledge of industry leaders who understand the relevant processes and technologies
for their industry-and apply them with a process and mindset that tailors transformational change to their specific organization. Who we
serve Deloitte's Power, Utilities & Renewables practice is at the forefront of top trends and issues facing the ever-evolving power,
utilities and renewable energy landscape. Building on more than 175 years of service, our US Power, Utilities & Renewables practice helps
clients with some of their most complex challenges as they look to accelerate digital transformation, ignite technological innovation,
and navigate more sustainable solutions for energy generation. Work You'll Do As a Manager, you will lead and deliver small engagements,
or components of large, complex engagements leadership for Enterprise Asset Management (EAM) implementation and integration projects that
identify, design and implement creative business and technology solutions for Power, Utilities & Renewables clients. Using a combination
of direct management and hands-on delivery, you will craft solutions for clients, guide and oversee the quality of your team's
deliverables and recommendations and manage day-to-day stakeholder relationships. Managers will contribute to Deloitte's thought
leadership, play a significant role in business development activities, and own responsibility for the development of junior staff.
Successful candidates will accomplish these objectives by: Managing deliverables for utility EAM implementation and integration projects
including architectural specifications, use case development, requirements gathering, risk assessment, design specification, test plans,
test cases and project financials. Overseeing the quality of deliverables through effectively leading and mentoring teams , leveraging
cross-geography insights and delivery professionals and managing client relationships to ensure exceptional performance Leading
functional and technical workshops, based on client needs Developing and fostering relationships with clients and establishing
credibility a trusted advisor to bring utility EAM domain expertise to a variety of projects. Leveraging deep industry knowledge,
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insights, trends, and proven approaches to help clients confirm priorities and develop strategies to drive value to the business and
customer experience. Participating in the development and presentation of proposals for business development activities Communicating
complex ideas effectively, both verbally and in writing, through tools like Microsoft PowerPoint and Microsoft Word Leveraging strong
problem solving, critical thinking and trouble shooting skills and demonstrating an ability to exercise mature judge ment. Required
Qualifications Bachelor's degree 6 + years' experience working with Utilities clients or experience working with in the Utilities sector
6 + years' experience in an Asset Management, Asset Performance Management, or Work Management capacity within the gas and electric
utility industry Experience implementing EAM solutions such as Maximo, IFS/Hexagon Knowledge of database model and service-oriented
architecture concepts Knowledge of software programming languages such as Python, Model Builder, FME Workbench, JavaScript, C++ Business
process automation experience Proficiency with Microsoft PowerPoint, Microsoft Word and Microsoft Excel Ability to travel 50%, on
average, based on the work you do and the clients and industries/sectors you serve Limited immigration sponsorship may be available
Preferred Skills Advanced Degree Knowledge of EAM, GIS and OMS enterprise architectures and web applications Consulting experience
Experience with Microsoft SharePoint, Microsoft OneNote, Microsoft OneDrive and Microsoft Teams The wage range for this role takes into
account the wide range of factors that are considered in making compensation decisions including but not limited to skill sets;
experience and training; licensure and certifications; and other business and organizational needs. The disclosed range estimate has not
been adjusted for the applicable geographic differential associated with the location at which the position may be filled. At Deloitte,
it is not typical for an individual to be hired at or near the top of the range for their role and compensation decisions are dependent
on the facts and circumstances of each case. A reasonable estimate of the current range is $144,600 to $241,000. You may also be eligible
to participate in a discretionary annual incentive program, subject to the rules governing the program, whereby an award, if any, depends
on various factors, including, without limitation, individual and organizational performance. Information for applicants with a need for
accommodation: https://www2.deloitte.com/us/en/pages/careers/articles/join-deloitte-assistance-for-disabled-applicants.html
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Information Systems",\n "Microsoft OneDrive",\n "JavaScript (Programming Language)"\n]
                                                                                                              |15-2051.01|Business
Intelligence Analysts|15-2051.01|Business Intelligence Analysts|[\n "45.0702"\n]
                                                                                                                     |[\n
                                                                                                   |[\n "45.07"\n]
"Geographic Information Science and Cartography"\n]
| [ \n \ \ "Geography and Cartography" \n ]
                                                                                            |[\n "45"\n]
I[\n "Social Sciences"\n]
         |Computer and Mathematical Occupations|15-2000 |Mathematical Science Occupations|15-2050 |Data Scientists|15-2051 |Data
Scientists 23
                        |Information Technology and Computer Science|231010
                                                                                 |Business Intelligence Analyst
                                                                                                                     |23101011
```

localhost:7919 17/37

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|General ERP Analyst / Consultant|2310
                                                                                      |23101011
                                                                                                                    |General ERP Analyst
                                                      |Business Intelligence
/ Consultant |231010
                                |Business Intelligence Analyst
                                                                      12310
                                                                                              |Business Intelligence
|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
2050|Data Scientists|15-2051|Data Scientists|[\n 3\n]
                                                              |[\n "Green Jobs: Enabled"\n]
                                                                                                              |Professional, Scientific,
                                                                                                154
and Technical Services | 541
                                   |Professional, Scientific, and Technical Services
                                                                                                                            |5416
|Management, Scientific, and Technical Consulting Services|54161
                                                                                                                                |541611
                                                                       |Management Consulting Services
|Administrative Management and General Management Consulting Services|
|036cd733481fbcc98483275941fc899a5cb28f91|8/2/2024
                                                           |2024-08-02 17:08:58.838|0
                                                                                              |6/2/2024|8/1/2024 |NULL
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Board"\nl
                                                                                                                    I[\n
"https://wings.mdes.ms.gov/wings/spring/self-service/job-order/job-order-lookup?
execution=e1s223&_eventId=view&selectedId=NLX260711624&jobSource=JOBCENTRAL"\n]
                               |Sr. Enterprise Data Architecture
                                                                                                               |Sr. Enterprise Data
Architecture #NLX260711624\n\n \n\n\n\n\n\n\n\n\n\n\cOMPARISON DETAILS\n\n\nEducation\n\nA survey of workers in the occupation Computer
Occupations found that All Other\n\n\nExperience\n\nA survey of workers in the occupation Computer Occupations found that All
Other\n\nHabla espaol? Ni ting Vit?\nWhat do Computer Occupations do?\nDescription\n\n**Alternate Locations:** Work from Home **Work
Arrangement:** Remote : Work at home employee residing outside of a commutable distance to an office location. **Relocation assistance:**
is not available for this opportunity. **Requisition #:** 73199 **The Role at a Glance** Looking for a passionate data practitioner to be
a key leader in the design, development, and management of transact\n... See All\n\n\nCompany\n\nLincoln Financial
Group\n\nSource\n\nNLX\n\n0ccupation\n\nComputer Occupations, All Other\n\n0penings Available\n\n1\n\nLocation and Contact
Information\n\n\nWork Location\n\n Jackson, 39203\nUSA\n\nContact Information\nJackson, 39203\nUSA\nSalary and Work Requirements\nWork
Hours Per Week\n\nNot Available\n\nPay Range\n\nMin: $0.00\n\nTips\n\nNot Earned\n\nDriver's License\n\nNot Required\n\nMinimum Age
\n \ \n\nNot Available \n\nTools \n\nNot Required \n\nRelocation \n\nRequired \n\nWork Days \n\nNot Available \n\nShifts \n\nNot Available \n\nComputer
Occupations, All Other in Mississippi\n0%\n\nBy 2028, Mississippi will need same number of "Computer Occupations, All Other"\n\nShow
County-Level Map\n2018 AVERAGE ANNUAL SALARY\n$81,286\n\n\n\n\an equal opportunity employer and program, MDES has auxiliary aids and
services available upon request to those with disabilities. Those needing TTY assistance may call 601-493-9427. Funded by the U.S.
Department of Labor through the Mississippi Department of Employment Security.
|6/14/2024
                                 |38205299|Lincoln Financial Group
                                                                        |Lincoln Financial Group
                                                                                                                          [\n 99\n]
                |12
|[\n "No Education Listed"\n]
                                                                            |99
                                                                                           |No Education Listed|NULL
                                                                                                                             INULL
                                                            NULL
11
                |Full-time (> 32 hours)|NULL
                                                                                               |81286 |1
                                                                                 Ifalse
                                                                                                                   IRemote
                                                                                                                                    Ivear
|81286
          181286
                      |{\n "lat": 32.2987573,\n "lon": -90.1848103\n} |SmFja3NvbiwgTVM=
                                                                                                  |Jackson, MS
                                                                                                                     128049 | Hinds. MS
|27140|Jackson, MS
                                            |28
                                                  |Mississippi|28049
                                                                               |Hinds, MS
                                                                                                    128049
                                                                                                                    |Hinds, MS
|27140
            |Jackson, MS
                                                   |27140
                                                                |Jackson, MS
                                                                                                    |52
                                                                                                          |Finance and Insurance
|523 |Securities, Commodity Contracts, and Other Financial Investments and Related Activities|5239 |Other Financial Investment
                              |52394 |Portfolio Management and Investment Advice
                                                                                             |523940|Portfolio Management and Investment
Activities
Advice
                                |ET0000000000000000|Unclassified
                                                                                  |sr enterprise data architecture
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|[\n "KS122NM6B8TWBGL2X18F"\n]
[\n "Data Architecture"\n]
     "ESE495A4017EB9404B8C"\n]
|[\n
                                                                                     |[\n "Valid Driver's License"\n]
[]
[]|
III
|15-2051.01|Business Intelligence Analysts|15-2051.01|Business Intelligence Analysts|[]
[]]
                                                                                                               []
[]|
                                                                                                  []|
|[]|
|15-0000 | Computer and Mathematical Occupations | 15-2000 | Mathematical Science Occupations | 15-2050 | Data Scientists | 15-2051 | Data
Scientists 23
                          |Information Technology and Computer Science|231510
                                                                                     |Computer Systems Engineer / Architect|23151012
                                 |2315
                                                      |Network and Systems Engineering|23151012
                                                                                                                     |Enterprise Architect
|Enterprise Architect
                  |Computer Systems Engineer / Architect|2315
                                                                                |Network and Systems Engineering|23
|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
2050|Data Scientists|15-2051|Data Scientists|NULL
                                                              INULL
                                                                                                152
                                                                                                              |Finance and Insurance
             |Securities, Commodity Contracts, and Other Financial Investments and Related Activities|5239
                                                                                                                   |Other Financial
Investment Activities
                                         152394
                                                      |Portfolio Management and Investment Advice
                                                                                                               1523940
                                                                                                                            |Portfolio
Management and Investment Advice
|dd191e2ce3062c371d3bca46058af0eea0186af2|9/6/2024
                                                           |2024-09-06 20:32:57.352|0
                                                                                              |6/2/2024|6/20/2024|18
                                                                                                                           |[\n "Job
Board"\n]
                                        [\n "phoenixrecruiter.com"\n]
                                                                                                                    |[\n
"https://www.phoenixrecruiter.com/it-software-systems-jobs/3651764773/sap-fscm-consultant"\n]
            |NULL
                                |SAP FSCM Consultant
                                                                                                               |Job Description: We Are:
Accenture's SAP practice, and we bring the New to life using designthinking, agile development methodologies, and the latest smarttech
for SAP when it comes to automation and AI. We help ourclients apply intelligence to set their business apart and makethem more
proactive, predictive and productive – the power of theintelligent enterprise. Ready to learn as much as you can? We putstrong emphasis
on training our people on S/4HANA and all the newcloud products from SAP, both functionally and technically - withthe support of our
70,000+ member community. It's also nice to knowour hard work doesn't go unrecognized. We've got over 70 SAPawards-more than any other
partner-and we're the leading businesspartner for SAP SuccessFactors, SAP Ariba, SAP Hybris, SAPFieldGlass, SAP Concur, and more. Visit
us here to find out moreabout Accenture's SAP practice. You Are: A transformation maven with the skills to help clients meet
thechallenges of digitization. Your human superpower? Using yourknow-how, creativity, and analytical powers to solve clients' mostcomplex
business problems to help their companies do more. You'reas comfortable leading projects and teams as you are diving intothe details of
workstreams and configuring SAP solutions. Or youspecialize in one or the other, our practice covers the functional& process side of SAP
as well as the technical development &technical architecture. Additionally, you have the communicationand people skills to inspire teams
to bring their A-game. The Work: Build SAP ERP technology solutions that transform clients' Finance and Analytics functions. Contribute to
large-scale, global work streams requiringspecific knowledge of SAP within the Finance function. Design, configure, test, and deploy FSCM
solutions and ensurethat all the pieces work together seamlessly. Work with the project team, Record to Report and clientstakeholders to
create stand-out Finance solutions powered bySAP. Analyze technical and functional integration requirements. Design, configuration and
```

test of various types of Invoicesbased on client specific business process. Design and configuration for Payment Terms, Customer Invoicing& Payments Process, FSCM Credit, Disputes & Collections Managementmodules Perform testing cycles across teams as well as cutoveractivities as required for go-live preparation. Preparation of end user documents and functional designdocuments. Guide performance testing & training teams rolling out asuccessful module to the user community. Resolve Defects during Testing, Cutover and Hypercarephases. Travel may be required for this role. The amount of travel willvary from 0 to 100% depending on business need and clientrequirements. Here's What You Need: Minimum of 2 years' experience in SAP AR/FSCM Minimum of 1 end-to-end AR/FSCM implementation Hands on experience with SAP/S4 Bachelor's degree or equivalent (minimum 12 years' workexperience). If Associate's Degree, must have equivalent minimum6-year work experience. Bonus Points If: You have team lead experience. You have external client-facing consulting experience. You have experience in migrating traditional receivablesmanagement to SAP FSCM. You have functional expertise in several Finance areasincluding General Ledger Accounting, Accounts Receivable, AccountsPayable, Fixed Assets, Product Costing/Actual Costing/MaterialLedger, Cost & Profit Center Accounting, Internal Orders. Compensation at Accenture varies depending on a wide array offactors, which may include but are not limited to the specificoffice location, role, skill set, and level of experience. Asrequired by local law, Accenture provides a reasonable range ofcompensation for roles that may be hired in California, Colorado, New York or Washington as set forth below. We accept applicationson an on-going basis and there is no fixed deadline to apply. Information on benefits is here. California: \$63,200 to \$188,600 Colorado: \$63,200 to \$163,000 New York: \$58,500 to \$188,600 Washington: \$67,300 to \$173,500 #LI-NA #LI-MP What We Believe We have an unwavering commitment to diversity with the aim thatevery one of our people has a full sense of belonging within ourorganization. As a business imperative, every person at Accenturehas the responsibility to create and sustain an inclusiveenvironment. Inclusion and diversity are fundamental to our culture and corevalues. Our rich diversity makes us more innovative and morecreative, which helps us better serve our clients and ourcommunities. Read more here Equal Employment Opportunity Statement Accenture is an Equal Opportunity Employer. We believe that no oneshould be discriminated against because of their differences, suchas age, disability, ethnicity, gender, gender identity andexpression, religion or sexual orientation. All employment decisions shall be made without regard to age, race,creed, color, religion, sex, national origin, ancestry, disabilitystatus, veteran status, sexual orientation, gender identity orexpression, genetic information, marital status, citizenship statusor any other basis as protected by federal, state, or locallaw. Accenture is committed to providing veteran employmentopportunities to our service men and women. For details, view a copy of the Accenture Equal EmploymentOpportunity and Affirmative Action Policy Statement . Requesting An Accommodation Accenture is committed to providing equal employment opportunities for persons with disabilities or religious observances, including reasonable accommodation when needed. If you are hired by Accentureand require accommodation to perform the essential functions ofyour role, you will be asked to participate in our reasonableaccommodation process. Accommodations made to facilitate therecruiting process are not a guarantee of future or continuedaccommodations once hired. If you would like to be considered for employment opportunitieswith Accenture and have accommodation needs for a disability orreligious observance, please call us toll free at 1 (877) 889-9009, send us an email or speak with your recruiter. Other Employment Statements Applicants for employment in the US must have work authorizationthat does not now or in the future require sponsorship of a visafor employment authorization in the United States. Candidates who are currently employed by a client of Accenture oran affiliated Accenture business may not be eligible forconsideration. Job candidates will not be obligated to disclose sealed or expungedrecords of conviction or arrest as part of the hiring process. The Company will not discharge or in any other manner discriminateagainst employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of anotheremployee or applicant. Additionally, employees who have access tothe compensation information of other employees or applicants as apart of their essential job functions cannot disclose the pay ofother employees or applicants to individuals who do not otherwisehave access to compensation information, unless the disclosure is(a) in response to a formal complaint or charge, (b) in furtheranceof an investigation, proceeding, hearing, or action, including aninvestigation conducted by the employer, or (c) consistent with theCompany's legal duty to furnish information. |8592955 |Accenture |Accenture 16/20/2024 118 Ifalse $|[\n 1,\n 2\n]$ |[\n "Associate degree",\n "Bachelor's degree"\n] |Associate degree |Bachelor's 11 12 NULL |Full-time (> 32 hours)|12 112590010 I [None] degree |1 Ifalse |188600 |{\n "lat": 0,\n "lon": 0\n} |W1Vua25vd24gQ2l0eV0sIEFa|[Unknown City], lyear 163200 AZ|4999 |[Unknown county], AZ|NULL |NULL 14 |Arizona |[Unknown county], AZ|4999 [[Unknown county], AZ|NULL INULL INULL INULL 154 |Professional, Scientific, and Technical Services|541 |Professional, Scientific, and Technical Services |54151 |Computer Systems Design and Related Services |5415 | Computer Systems Design and Related Services |541512|Computer Systems Design Services |ETF594A2C05D212506|Peoplesoft FSCM Consultants |[\n "KS7G7VL78R2LKZZZCZ8M",\n "KS122ZF75YVNLXW1BN4Q",\n "KS121905YTBHHX4N89W2",\n "KS123MC78KV644P5DDZ0",\n "KS1203V5WXB7NG26XSR8",\n "KS1218Y74WJ6YV4KH0DM",\n "KS1267G65F62ZDQ9W3DW",\n "KS7G4YT72YHJ3BVJ4P56",\n "ESFBA106B75C53CB72F1",\n "KS1203W6419RJG2KW4QS",\n "KS126V16PQ524FN4TK77",\n "KS4418G73HVX8880R05Z",\n "KS44086772RVPJQ1SVW6",\n "KS7G7RG6HZ6DJGX617R2",\n "ESB92020333F27589A43",\n "KS123ZJ5X02D3GL6CNQT",\n "KS1248L77TSY3J2V2XC1",\n "KS122B071LMGXVTT3Z91",\n "KS1203W702ND09XHKJR5",\n "KS4418462TTGKL3CWJHT"\n] |[\n "Profit Center Accounting",\n "Digitization",\n "Business Process Modeling",\n "Finance",\n "Accounts Payable",\n "Business Process",\n "Apache Maven",\n "Collections",\n "Record to Report (R2R)",\n "Accounts Receivable",\n "SAP ERP",\n "Technological Change",\n "SAP Applications",\n "Performance Testing",\n "Technology Solutions",\n "Fixed Asset",\n "General Ledger",\n "Consulting",\n "Accounting",\n "Team Leadership"\n] [[n "KS7G7VL78R2LKZZZCZ8M",\n "KS121905YTBHHX4N89W2",\n "KS123MC78KV644P5DDZ0",\n "KS1203V5WXB7NG26XSR8",\n . 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localhost:7919

|Business Intelligence Analyst

|23101011

|Information Technology and Computer Science|231010

Scientists | 23

```
|General ERP Analyst / Consultant|2310
                                                                                                           |23101011
                                                                   IBusiness Intelligence
                                                                                                                                                IGeneral ERP Analyst
/ Consultant |231010
                                       |Business Intelligence Analyst
                                                                                       12310
                                                                                                                     |Business Intelligence
|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
2050|Data Scientists|15-2051|Data Scientists|NULL
                                                                             NULL
                                                                                                                       154
                                                                                                                                       IProfessional, Scientific.
and Technical Services | 541
                                           |Professional, Scientific, and Technical Services
                                                                                                                                                         |5415
|Computer Systems Design and Related Services
                                                                        |54151
                                                                                        |Computer Systems Design and Related Services
                                                                                                                                                              |541512
|Computer Systems Design Services
|f28123528a32b8c9b42f8f4529f12a92887787ac|9/6/2024
                                                                         |2024-09-06 20:32:57.352|0
                                                                                                                                                        |[\n
                                                        |[\n "sca.health"\n]
"Company"\n]
                                                                                                                                                     |[\n
"https://careers.sca.health/jobs/34381?lang=en-us"\n]
[]|
               NULL
                                       |Principal Architect
                                                                                                                                         |Principal
Architect \verb|\nBirmingham|, Alabama \verb|\nSurgical| Care Affiliates \verb|\nTechnology \verb|\nRegular \verb|\nFull-time \verb|\nI \verb|\nUSD $160,000.00/Yr. \nUSD $160,000
$170,000.00/Yr.\n34381\nJob Description\nOverview\nToday, SCA Health has grown to 11,000 teammates who care for 1 million patients each
year and support physician specialists holistically in many aspects of patient care. Together, our teammates create value in specialty
care by aligning physicians, health plans and health systems around a common goal: delivering on the quadruple aim of high-quality
outcomes and a better experience for patients and providers, all at a lower total cost of care.\nAs part of Optum, we participate in an
integrated care delivery system that enables us to support our partners as they navigate a complex healthcare environment, Only SCA
Health has a dynamic group of physician-driven, specialty care businesses that allows us to customize solutions, no matter the need or
challenge:\nWe connect patients to physicians in new and differentiated ways as part of Optum and with our new Specialty Management
Solutions business.\nWe have pioneered a physician-led, multi-site model of practice solutions that restores physician agency by aligning
incentives to support growth and transition to value-based care.\nWe lead the industry in value-based payment solutions through our
Global 1 bundled payment convener, that provides easy predictable billing to patients.\nWe help physicians address everything beyond
surgical procedures, including anesthesia and ancillary service lines.\nThe new SCA Health represents who we are today and where we are
goingand the growing career opportunities for YOU.\nResponsibilities\nWe currently have an exciting opportunity for Principal Architect -
Networking & Infrastructure, responsible for working with stakeholders, both leadership and subject matter experts, to shape the
organization's IT Infrastructure and Network strategy. The ideal candidate will provide technical leadership across the organization,
from strategic decision making down to the project planning level. This is an individual contributor role, with the focus on technical
expertise and strategy development.\nKey Accountabilities:\n Document and develop in-depth knowledge of existing IT Infrastructure &
Network Architecture and Technology portfolio.\n Align the Information Technology (IT) strategy and solutions, with the Company's
business objectives.\n Build, maintain, promote, and evangelize an enterprise view of the IT architectural blueprint and roadmap.\n
Research and champion emerging technologies to enhance infrastructure development efforts, recommending technologies that will increase
cost effectiveness and network flexibility, in a hybrid environment with both data center and cloud workloads.\n Collaborate with PMO,
business users, and stakeholders across various projects to understand functional and technical aspects of projects, ensuring adherence
to Enterprise Architecture principles.\n Collaborate and partner with Optum to understand broader roadmap.\n Represent SCA Health and be
an influencing voice at the table.\n Analyze the IT Infrastructure & Network environment to detect critical deficiencies and recommend
solutions for improvement.\n Support developing business case and cost benefit analysis, while reducing project risk.\n Orchestrate,
design, and architect solutions that leverage the existing investment made in current heterogeneous IT. Drive to homogenize the
technology environment.\n Provide portfolio governance and oversight to drive lifecycle optimization and alignment across all
initiatives.\n Present ideas with qualitative and quantitative findings, including developing, documenting, recommending, and
communicating plans for investing in IT infrastructure & Network, including analysis of cost reduction opportunities.\n Articulate
technology solutions and analytical findings to Executive Management, Business leadership, software developers, and end users\n Develop,
document, communicate, and enforce technology standards.\n Influence and guide implementation best practices at the individual performer
level, work through technology challenges faced by the team, and provide solutions.\n Contribute to the growth and maturity of the IT
department by providing mentorship, fostering development and knowledge transfer, and thought-leading by example.\n Develop, manage and
publish Technical Reference Architectures and various levels of Architecture diagrams.\n Monitor and manage Technical Debt within the
environment. Define, track, and report accrued value through the life of technology.\n Shares best practices, lessons learned and
constantly updates the technical system architecture requirements based on changing technologies, and knowledge related to recent,
current and upcoming vendor products and solutions.\n Additional duties as assigned.\nQualifications\n Bachelor's degree or equivalent
work experience.\n 8-10+ years of experience with Enterprise Infrastructure support, with strong focus on Networking (Cisco. Juniper
Arsita), Infrastructure (VM Ware, Citrix)\n 5+ years of experience working in an architect or technical leadership capacity, most recent
role included in Networking and/or Infrastructure space.\n Solid understanding of interoperability issues in a hybrid environment -
traditional data center and cloud (Azure) setting.\n Proven expertise in designing, implementing, and managing large-scale network
infrastructures in traditional Data Center and in cloud (Azure). Certifications preferred: CCIE, JNCIE, or equivalent in networking
fields.\n Knowledge of TOGAF, ITSM and ITIL\n Excellent design pattern skills irrespective of technology, and willingness to assume total
ownership of technology solutions from inception to delivery.\n Fluency in modern-day IT management concepts, including strategic
planning, enterprise architecture, capital planning, cloud computing, and IT portfolio management.\n Experience in creating an effective
framework and process model for establishing enterprise-wide infrastructure architecture.\n Ability and willingness to document
Infrastructure/Network/Security architecture and dependencies for existing platforms, that are currently in use at SCA.\n Understanding
and experience implementing the strategic alignment of business and IT.\n Demonstrated competency in communicating the value of
enterprise architecture to stakeholders and senior management.\n Strong interpersonal, verbal and written communication skills, with the
ability to develop and conduct executive-level presentations.\n Ability to collaborate and influence with various levels of individuals -
both IT and business.\n Experience with Vendor management and building vendor relationships.\n Self-directed with the ability to work
effectively under tight deadlines.\n Experience with Mergers & Acquisitions, in areas of Diligence & Integrations is desirable.\nUSD
$160,000.00/Yr. USD $170,000.00/Yr.\nEEO Statement\nWe value Diversity, Inclusion, and Belonging at SCA Health. SCA Health is an Equal
Employment Opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color,
religion, sex (including pregnancy), age, national origin, disability and genetic information, or any other characteristic protected by
law.\nUnitedHealth Group is a drug - free workplace. Candidates are required to pass a drug test before beginning employment.|8/1/2024
                                                                      |Surgical Care Affiliates SCA|false
INULL
                     |39192167|Surgical Care Affiliates
                                                                                                                                  |[\n 2\n]
                                                                                                                                                              |[\n
"Bachelor's degree"\n]
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                                                                                       12
11
                    |Full-time (> 32 hours)|8
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170000
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                                                                                                                                                |1073 |Jefferson, AL
|13820|Birmingham-Hoover, AL
                                                              |Alabama
                                                                             11073
                                                                                                 |Jefferson, AL
                                                                                                                           |1073
                                                                                                                                               |Jefferson, AL
                                                       |1
|13820
                |Birmingham-Hoover, AL
                                                               |13820
                                                                                |Birmingham, AL
                                                                                                                           |62
                                                                                                                                    |Health Care and Social
Assistance
                               |621
                                       |Ambulatory Health Care Services
                                                                                                                                                     16214
|Outpatient Care Centers
                                                                        |62149 |Other Outpatient Care Centers
|621493|Freestanding Ambulatory Surgical and Emergency Centers
                                                                                              |ET7767EEDBF263F7B7|Principal Architects
                                                                                                                                                            |principal
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localhost:7919 20/37

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|[\n "ES99B020D66F6670BCA6",\n "ES4B99FD0FD70AC92985",\n
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                         |Information Technology and Computer Science|231510
Scientists | 23
|Enterprise Architect
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                                                     |Network and Systems Engineering|23151012
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1231510
                 |Computer Systems Engineer / Architect|2315
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2050|Data Scientists|15-2051|Data Scientists|[\n 5\n]
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                        |621
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insights Find out how your skills align with the job description Skills Do you have experience in SQL ? Yes No Job details Here's how the
job details align with your . Pay $120,000 - $220,000 a year Job type Full-time Location San Francisco, CA Benefits Pulled from the full
job description 401(k) matching Dental insurance Health insurance Internet reimbursement Parental leave Unlimited paid time off Vision
insurance Full job description San Francisco G&A - 13008 - Data / Full Time / Remote Aircall is a place where voices are valued. Backed
by over $220 million of investment since 2015, we create technology that fuels accessible, transparent and collaborative communication to
empower our base of 18,000+ customers (and growing) to make authentic, human connections. Conversation is a cornerstone of our culture.
Wherever our people find themselves in the Aircall world - Paris, New York, San Francisco, Sydney, Madrid, London, Berlin, or at home -
everyone has a voice that is valued. Whatever your background, wherever you're from - we want you to join the conversation. Let's talk.
About the team Our data team is the backbone of Aircall's decision-making process, driving product development and business growth with
cutting-edge data products, tools, and actionable insights About the role As a senior to Principal Growth Data Analyst, you'll provide
invaluable insights to our growth organization in the Bay Area, acting as the data lead for the Growth team and working closely with our
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CTO, CPO, and other C-level executives. You'll support impactful initiatives , including p ricing, packaging, multi-product strategies,
and self-service approaches. On top of the growth team, you'll collaborate cross-functionally with Sales, Finance, Marketing, and
Customer Relations to translate data needs into powerful solutions. You'll also establish best practices in analytics and mentor team
members, ensuring high standards in data governance and insight generation. This position can be based in the Bay Area (preferred) or in
our NYC HQ. Your mission @ Aircall: Partner with marketing, growth, and business leaders to define the growth strategy and deliver key
projects in customer acquisition, engagement, and retention Provide actionable insights and compelling narratives to influence major
decisions at the C-level Build a culture of experimentation by designing and executing rigorous AB tests to measure business impact
Enhance team processes and leverage self-service analytics to better serve business leaders Work with data engineers and become their
relay to continuously improve the data stack, governance practices, and analysis quality Develop the data-driven culture at Aircall A
little more about you: 6+ years of analytical experience in a tech savvy environment with high standard outcome Proficiency in SQL and
Python for deriving insights Data-driven, structured and solution oriented with extensive experience in building rigorous experiments
Excellent interpersonal skills and the ability to explain complex data clearly to stakeholders at all levels You have an insatiable
curiosity and are biased toward action Previous experience contributing to growth initiatives is a plus $120,000 - $220,000 a year This
is not including equity and other benefits. The actual salary offered will carefully consider a wide range of factors, including your
skills, qualifications, and experience. Key traits we look for: Key traits we look for: You are coachable, you are resilient, you are
solution oriented coming to the table with great ideas, and you find the fun in a good challenge! We will invest in you, as you invest in
us. We believe that owning your growth and owning your success starts with you, but it's up to us to help provide the platform for
learning, growing and building your career! Aircall is constantly moving forward. We're building new roads to complete our journey, and
we're taking people with us who have the same builder mentality. Let's grow together: Aircall is a place for those who dare to be bold
and seek responsibility, excellence, and the opportunity to push themselves to new heights. We're creating a place where great people
trust one another and thrive together. People flourish at Aircall and now is the time to be part of the team and the journey we're on.
Why join us? Key moment to join Aircall in terms of growth and opportunities Our people matter, work-life balance is important at
Aircall Fast-learning environment, entrepreneurial and strong team spirit 45+ Nationalities: cosmopolite & multi-cultural mindset
Competitive salary package & equity Medical, dental, and vision insurance is 100% covered 401k plan with company matching! Unlimited PTO
take the time you need to come to work feeling great! Wellness, internet, and childcare reimbursements Generous parental leave policy
DE&I Statement: At Aircall, we believe diversity, equity and inclusion - irrespective of origins, identity, background and orientations -
are core to our journey. We pride ourselves on promoting active inclusion within our business to foster a strong sense of belonging for
all. We're working to create a place filled with diverse people who can enrich and learn from one another. We're committed to ensuring
that everyone not only has a seat at the table but is valued and respected at it by providing equal opportunities to develop and thrive.
We will constantly challenge ourselves to make sure that we live up to our ambitions around diversity, equity and inclusion, and keep
this conversation open. Above all else, we understand and acknowledge that we have work to do and much to learn. Want to know more about
candidate privacy? Find our Candidate Privacy Notice here.
|7/27/2024
                   155
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Industry
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|Unclassified Industry
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Scientists 23
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|Data Analyst
                                                                 |Data Analysis and Mathematics |23111310
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|231113
                      |Data / Data Mining Analyst
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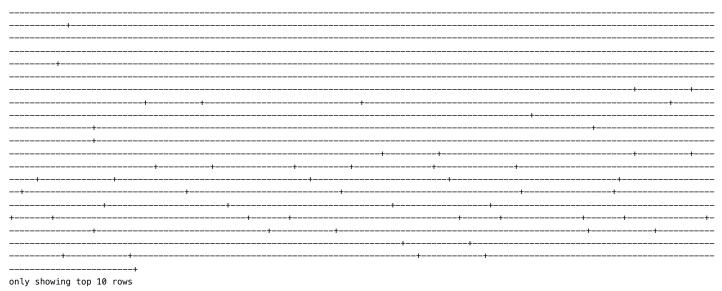
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                                |SR Lead Data Analyst
                                                                                                             |About Lumen\n\nLumen
connects the world. We are igniting business growth by connecting people, data and applications - quickly, securely, and effortlessly.
Together, we are building a culture and company from the people up – committed to teamwork, trust and transparency. People power
progress.\n\nLumen's commitment to workplace inclusion and employee support shines bright. We've made the Newsweek 2024 Greatest
Workplaces for Diversity list and achieved a perfect score of 100 on the Human Rights Campaign Corporate Equality Index (CEI) for the
fifth consecutive year. Plus, we're the top employer in the communications and telecom industry, ranking 12th overall across all
industries in The American Opportunity Index.\n\nWe're looking for top-tier talent and offer the flexibility you need to thrive and
deliver lasting impact. Join us as we digitally connect the world and shape the future.\n\nThe Role\n\nThe Senior Lead Data Analyst has
responsibility for data, reporting, metrics, and analytics within the Mass Markets Dispatch Operations organization at Lumen. This role
will support the Business Intelligence Manager and Analytics team with analysis, reporting, and solutioning activities. They will provide
quidance to the business on short- and long-term decisions and help drive performance improvements.\n\nLocation and Schedule\n\nThis is a
Work From Home position in the United States.\n\nThe Main Responsibilities\n\n Provides business analysis and support for Mass Markets
Dispatch Operations teams\n\n Creates ad-hoc reports along with creation and presentation of quality dashboards that provide operational
visibility to the business unit(s)\n\n Defines and provides data evidence to support business cases and quantify business opportunities
for optimization\n\n Defines the data gathered and determines patterns pertaining to key performance indicators (KPIs) and business
challenges\n\n Defines and provides data to support 'control' of delivered solutions (value realization)\n\n Develops high quality
graphs, reports, and presentations of data results\n\n Performs statistical analyses when needed\n\n Identifies, analyzes, and interprets
trends or patterns in sometimes complex data sets\n\n Presents standard data sets and information in an understandable and compelling
manner\n\n Executes different data analytics to ensure the completeness, quality, and consistency of data used for analytics across
systems\n\n Identifies, analyzes, documents, and improves existing business processes\n\n Confirms business assumptions with data driven
facts\n\n Collaborates with all Mass Markets Dispatch Operations teams on data, results, and findings\n\nWhat We Look For in a
Candidate\n\n Demonstrated ability in developing complex automated Business Intelligence solutions using software such as Power BI,
QlikSense, Tableau, or Looker\n\n PL/SQL experience\n\n Database Management Systems experience such as Oracle, Microsoft SQL Server, or
Snowflake\n\n Python development experience\n\n Extract, Transfer, Load (ETL) experience\n\n Combined IT and Business Operations
background\n\n Bachelor's Degree preferred, or equivalent combination of education, training, and experience\n\n Fireworks/Bidmaster
experience\n\n VBA/BASH/PHP development experience\n\nCompensation\n\nThe starting salary for this role differs based on the employee's
primary work location. Employees typically do not start at the top of the range, though compensation depends on each individual's
qualifications.\n\nLocation Based Pay Ranges\n\n$94420 - $125890 in these states: AR, ID, KY, LA, ME, MS, NE, SC, and SD.\n\n$99390 -
$132510 in these states: AZ, AL, FL, GA, IN, IA, KS, MO, MT, NM, ND, OH, OK, PA, TN, UT, VT, WV, WI, and WY.\n\n$104360 - $139140 in
these states: CO, HI, MI, MN, NV, NH, NC, OR, and RI.\n\n$109330 - $145770 in these states: AK, CA, CT, DE, DC, IL, MD, MA, NJ, NY, TX,
VA, and WA.\n\nAs with the pay range variety that's based on the region of a country, specific offers are determined by various factors
such as experience, education, skills, certifications and other business needs.\n\nWhat to Expect Next\n\nRequisition #:
333643\n\nBackground Screening\n\nIf you are selected for a position, there will be a background screen, which may include checks for
criminal records and/or motor vehicle reports and/or drug screening, depending on the position requirements. For more information on
these checks, please refer to the Post Offer section of our FAQ page (https://jobs.lumen.com/global/en/faq) . Job-related concerns
identified during the background screening may disqualify you from the new position or your current role. Background results will be
evaluated on a case-by-case basis.\n\nPursuant to the San Francisco Fair Chance Ordinance, we will consider for employment qualified
applicants with arrest and conviction records.\n\nEqual Employment Opportunities\n\nWe are committed to providing equal employment
opportunities to all persons regardless of race, color, ancestry, citizenship, national origin, religion, veteran status, disability,
genetic characteristic or information, age, gender, sexual orientation, gender identity, gender expression, marital status, family
status, pregnancy, or other legally protected status (collectively, protected statuses). We do not tolerate unlawful discrimination in
any employment decisions, including recruiting, hiring, compensation, promotion, benefits, discipline, termination, job assignments or
training.\n\nDisclaimer\n\nThe job responsibilities described above indicate the general nature and level of work performed by employees
within this classification. It is not intended to include a comprehensive inventory of all duties and responsibilities for this job. Job
duties and responsibilities are subject to change based on evolving business needs and conditions.\n\nSalary Range\n\nSalary Min
:\n\n94420\n\nSalary Max :\n\n145770\n\nThis information reflects the anticipated base salary range for this position based on current
national data. Minimums and maximums may vary based on location. Individual pay is based on skills, experience and other relevant
factors.\n\nThis position is eligible for either short-term incentives or sales compensation. Director and VP positions also are eligible
for long-term incentive. To learn more about our bonus structure, you can view additional information here.
(https://jobs.lumen.com/global/en/compensation-information) We're able to answer any additional questions you may have as you move
through the selection process.\n\nAs part of our comprehensive benefits package, Lumen offers a broad range of Health, Life, Voluntary
Lifestyle and other benefits and perks that enhance your physical, mental, emotional and financial wellbeing. You can learn more by
clicking here. (https://centurylinkbenefits.com)\n\nNote: For union-represented postings, wage rates and ranges are governed by
applicable collective bargaining agreement provisions.\n\nApplication Deadline\n\n06/05/2024
                                                                                                                       |[\n 2\n]
|6/12/2024
                110
                                |2233642 |Lumen Technologies
                                                                       ILumen
                                                                                                    |false
|[\n "Bachelor's degree"\n]
                                                                                         |Bachelor's degree |NULL
                                                                                                                          NULL
                |Full-time (> 32 hours)|NULL
                                                           |NULL
                                                                                |false
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11
                                                                                                                 |Remote
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                     |{\n "lat": 0,\n "lon": 0\n}
|125890
         194420
                                                                       |W1Vua25vd24gQ2l0eV0sIFR0|[Unknown City], TN|47999 |[Unknown
county], TN|NULL |NULL
                                                            |Tennessee |47999
                                                                                                                            | [Unknown
                                                                                        |[Unknown county], TN|47999
county], TN|NULL
                       NULL
                                                             INULL
                                                                          INULL
                                                                                                             |51
                                                                                                                   |Information
      |Telecommunications
|517
                                                                                              |5178 |All Other Telecommunications
|51781 |All Other Telecommunications
                                                              |517810|All Other Telecommunications
|ET95DB859B53CCACA7|Lead Data Analysts
                                                 Isr lead data analyst
"KS13USA80NE38XJHA2TL",\n "KS1280B68GD79P4WMVYW",\n "BGSA7DCCDC1D023EA7F9",\n "KS6Z33S8WC7GU2UT7Q42",\n "KS1218C6C8TX2Y1KRN37",\n
"KS1218Y74WJ6YV4KH0DM",\n "KS127SZ60YZR8B5CQKV1",\n "KS125LS6N7WP4S6SFTCK",\n "KS1218L60PDVZX16NZT1",\n
                                                                                                          "KS125MK6L8XN70ZS40ZY",\n
"KS120ZX7019J4V8DHBTM",\n "KS127D361PF0FTXDZ7C4",\n "KS120GV6C72JMSZKMTD7",\n "ES84406857CBEEFACE95",\n "BGS4CDA2E23CE451E247",\n
"KS122PF6FZS3609GDG0V",\n "KS120X767ZQ3210N2306",\n "KS441626TDSV2J6GBB86"\n]
|[\n "Power BI",\n "Presentations",\n "Data Reporting",\n "Qlik Sense (Data Analytics Software)",\n "Business Analysis",\n
```

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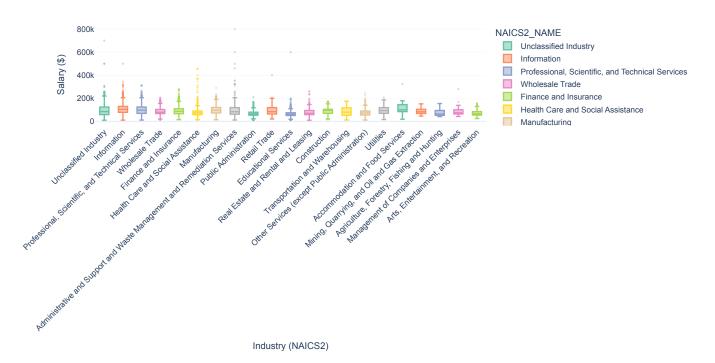
```
"Business Process",\n "PHP Development",\n "Python (Programming Language)",\n "Dashboard",\n "Key Performance Indicators (KPIs)",\n
"Looker Analytics",\n "Microsoft SQL Servers",\n "PL/SQL",\n "Database Management Systems",\n "Visual Basic For Applications",\n "Business Intelligence",\n "Operations",\n "Data Analysis",\n "Business Operations",\n "Ad Hoc Reporting",\n "Extract Transform Load"
(ETL)",\n "Bash (Scripting Language)",\n "Tableau (Business Intelligence Software)"\n]
[[n "KS13USA80NE38XJHA2TL",\n "KS6Z33S8WC7GU2UT7Q42",\n "KS1218C6C8TX2Y1KRN37",\n "KS1218Y74WJ6YV4KH0DM",\n
"K$127$Z60YZR8B5CQKV1",\n "K$125L$6N7WP4$6$FTCK",\n "K$1218L60PDVZX16NZT1",\n "K$125MK6L8XN70Z$40ZY",\n "K$WF5CX0VFKMUQF3RJNP",\n
"KS126JR6F5V2TRCLB1H5",\n "KS127HT6PY61NVMR3PWG",\n "KS122NP6Q1WTCX2CYC2J",\n "KS441RD6NRHRTH3K7RCB",\n "KS120ZX7019J4V8DHBTM",\n
"KS120GV6C72JMSZKMTD7",\n "ES84406857CBEEFACE95",\n "BGS4CDA2E23CE451E247",\n "KS122PF6FZS3609GDG0V",\n "KS120X767ZQ3210N2306",\n
"KS441626TDSV2J6GBB86"\n]
|[\n "Power BI",\n "Qlik Sense (Data Analytics Software)",\n "Business Analysis",\n "Business Process",\n "PHP Development",\n
"Python (Programming Language)",\n "Dashboard",\n "Key Performance Indicators (KPIs)",\n "Looker Analytics",\n "Microsoft SQL
Servers",\n "PL/SQL",\n "Database Management Systems",\n "Visual Basic For Applications",\n "Business Intelligence",\n "Data
Analysis",\n "Business Operations",\n "Ad Hoc Reporting",\n "Extract Transform Load (ETL)",\n "Bash (Scripting Language)",\n
"Tableau (Business Intelligence Software)"\n]
I[]
                                                                                      []
|[\n "KS1280B68GD79P4WMVYW",\n "BGSA7DCCDC1D023EA7F9",\n "KS127D361PF0FTXDZ7C4"\n]
|[\n "Presentations",\n "Data Reporting",\n "Operations"\n]
[[\n "KS13USA80NE38XJHA2TL",\n "KS6Z33S8WC7GU2UT7042",\n "KS127SZ60YZR8B5C0KV1",\n "KS125LS6N7WP4S6SFTCK",\n
"KS1218L60PDVZX16NZT1",\n "KSWF5CX0VFKMUQF3RJNP",\n "KS126JR6F5V2TRCLB1H5",\n "KS127HT6PY61NVMR3PWG",\n "KS122NP6Q1WTCX2CYC2J",\n
"KS441RD6NRHRTH3K7RCB",\n "KS120X767ZQ3210N2306",\n "KS441626TDSV2J6GBB86"\n]
|[\n "Power BI",\n "Qlik Sense (Data Analytics Software)",\n "PHP Development",\n "Python (Programming Language)",\n "Dashboard",\n
"Looker Analytics",\n "Microsoft SQL Servers",\n "PL/SQL",\n "Database Management Systems",\n "Visual Basic For Applications",\n
"Bash (Scripting Language)",\n "Tableau (Business Intelligence Software)"\n]
                                                                                                                    |15-2051.01|Business
Intelligence Analysts|15-2051.01|Business Intelligence Analysts|[\n "52.0201"\n]
"Business Administration and Management, General"\n]
                                                                                                          |[\n "52.02"\n]
                                                                                                   |[\n "52"\n]
|[\n "Business Administration, Management and Operations"\n]
|[\n "Business, Management, Marketing, and Related Support Services"\n]
|15-0000 | Computer and Mathematical Occupations | 15-2000 | Mathematical Science Occupations | 15-2050 | Data Scientists | 15-2051 | Data
                          |Information Technology and Computer Science|231113
                                                                                      |Data / Data Mining Analyst
Scientists 23
                                                                                                                             123111310
|Data Analyst
                                 |2311
                                                       |Data Analysis and Mathematics |23111310
                                                                                                                      |Data Analyst
                  |Data / Data Mining Analyst
1231113
                                                        2311
                                                                                 |Data Analysis and Mathematics |23
|Information Technology and Computer Science|15-0000|Computer and Mathematical Occupations|15-2000|Mathematical Science Occupations|15-
                                                                                                  |51
2050|Data Scientists|15-2051|Data Scientists|NULL
                                                               NULL
                                                                                                               |Information
             |Telecommunications
                                                                                                       15178
                                                                                                                    |All Other
Telecommunications
                                                |51781
                                                             |All Other Telecommunications
                                                                                                                      |517810
                                                                                                                                    IAll
Other Telecommunications
```

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	+



Salary Distribution by Industry (NAICS2)



2.0.1 Key Insights

- Industries such as Information, Finance & Insurance, and Professional, Scientific, & Technical Services tend to have higher median salaries, whereas industries like Retail Trade and Accommodation & Food Services show lower median salaries with less variation.
- Certain industries, such as Mining, Quarrying, and Oil & Gas Extraction, display a wider salary distribution, indicating a mix of both high and low-paying roles, while industries like Health Care & Social Assistance have a more compact distribution, suggesting more standardized pay structures.

This suggests that **industry choice plays a significant role in salary potential**, with knowledge-based and resource-intensive industries offering higher compensation ranges.

3 Job Posting Trends Over Time

- Analyze how job postings fluctuate over time.
- Aggregate Data
 - o Count job postings per posted date (POSTED).
- Visualize results
 - o Create a line chart where:
 - X-axis = POSTED

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- Y-axis = Number of Job Postings
- Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

```
# Import necessary libraries
from pyspark.sql.functions import col, to_date, count
import plotly.express as px
# Display distinct values in POSTED column before cleaning
df.select("POSTED").distinct().show(10, False)
# Convert POSTED column to date format
df_clean = df.withColumn("POSTED", to_date(col("POSTED"), "M/d/yyyy"))
# Display distinct values after cleaning
df_clean.select("POSTED").distinct().show(10, False)
# Group by POSTED date and count job postings
df_grouped = df_clean.groupBy("POSTED").agg(count("*").alias("Job_Count")).orderBy("POSTED")
# Display row count after grouping
print(f"Rows after grouping: {df_grouped.count()}")
# Show first 10 rows of the grouped DataFrame
df_grouped.show(10)
# Convert to Pandas DataFrame for visualization
pdf = df_grouped.toPandas()
# Import necessary libraries
import plotly.express as px
# Convert grouped data to Pandas DataFrame for visualization
pdf = df_grouped.toPandas()
# Drop NULL values from POSTED column
pdf = pdf.dropna()
# Create a Line Chart using Plotly
fig = px.line(
   pdf,
    x="POSTED",
   y="Job_Count",
   title="Job Posting Trends Over Time",
   line_shape="linear",
   markers=True
# Customize visualization to meet grading criteria
fig.update_layout(
   font_family="Arial",
   title_font_size=16,
   xaxis_title="Date Posted",
   yaxis_title="Number of Job Postings",
   template="plotly_white"
# Show the plot
fig.show()
fig.write_image("output/Job Posting Trends Over Time.svg")
```

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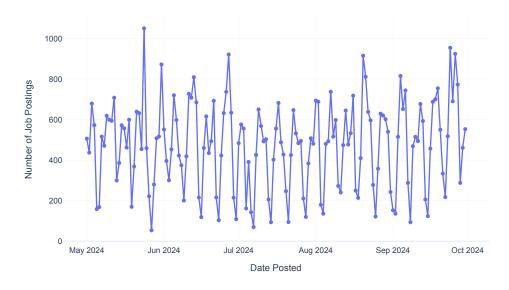
|8/28/2024|

only showing top 10 rows

Rows after grouping: 154 POSTED|Job_Count| NULL |2024-05-01| 5061 |2024-05-02| 437| |2024-05-03| 679| 573| |2024-05-04| |2024-05-05| 159| |2024-05-06| 169| |2024-05-07| 516| |2024-05-08| 471| 619| |2024-05-09|

only showing top 10 rows

Job Posting Trends Over Time



3.1 Key Insights

- The number of job postings fluctuates significantly over time, with noticeable peaks and drops, suggesting seasonality or hiring cycles.
- . There is an increasing trend in job postings as the timeline progresses, indicating potential growth in hiring activity over the observed period.

4 Top 10 Job Titles by Count

- Identify the most frequently posted job titles.
- Aggregate Data

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- Count the occurrences of each job title (TITLE_NAME).
- Select the top 10 most frequent titles.
- Visualize results
 - Create a bar chart where:
 - X-axis = TITLE_NAME
 - Y-axis = Job Count
 - Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

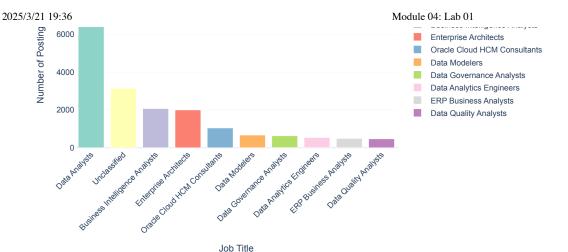
```
# Import necessary libraries
from pyspark.sql.functions import col, count
import plotly.express as px
# Aggregate: Count job postings by job title
df_grouped = df.groupBy("TITLE_NAME").agg(count("*").alias("Job_Count"))
# Select top 10 job titles
df_top10 = df_grouped.orderBy(col("Job_Count").desc()).limit(10)
# Show top 10 job titles in Spark DataFrame
df_top10.show(10, False)
# Convert to Pandas DataFrame for display
pdf = df_top10.toPandas()
# Create a bar chart for the top 10 job titles
fig = px.bar(
   pdf,
    x="TITLE_NAME",
    y="Job_Count",
    title="Top 10 Job Titles by Count",
    color="TITLE_NAME",
   {\tt color\_discrete\_sequence=px.colors.qualitative.Set3}
# Customize the visualization
fig.update_layout(
    font_family="Arial",
    title_font_size=16,
   xaxis_title="Job Title",
    yaxis_title="Number of Postings",
   template="plotly_white",
    xaxis_tickangle=-45 # Rotate labels for better readability
# Show the plot
fig.show()
fig.write_image("output/Top 10 Job Titles by Count.svg")
```

+	++
TITLE_NAME	Job_Count
+	++
Data Analysts	8591
Unclassified	3149
Business Intelligence Analysts	2072
Enterprise Architects	1999
Oracle Cloud HCM Consultants	1042
Data Modelers	668
Data Governance Analysts	628
Data Analytics Engineers	537
ERP Business Analysts	488
Data Quality Analysts	467
1	

Top 10 Job Titles by Count

S





4.0.1 Key Insights

- Data Analysts is the most frequently posted job title, significantly outpacing other roles, indicating high demand in the job market.
- Other job titles, such as **Business Intelligence Analysts** and **Enterprise Architects**, also have substantial postings, reflecting a strong need for data-related and strategic technology roles.

5 Remote vs On-Site Job Postings

- Compare the proportion of remote and on-site job postings.
- Aggregate Data
 - Count job postings by remote type (REMOTE_TYPE_NAME).
- Visualize results
 - o Create a pie chart where:
 - Labels = REMOTE_TYPE_NAME
 - Values = Job Count
 - o Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

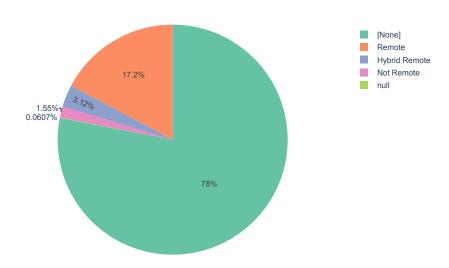
```
# Import necessary libraries
from pyspark.sql.functions import col, count
# Aggregate: Count job postings by remote type
df_remote_grouped = df.groupBy("REMOTE_TYPE_NAME").agg(count("*").alias("Job_Count"))
# Show distinct remote type job postings in Spark DataFrame
df_remote_grouped.show(10, False)
# Convert to Pandas DataFrame for display
pdf_remote = df_remote_grouped.toPandas()
# Create a pie chart for remote vs on—site job postings
fig = px.pie(
   pdf remote,
   names="REMOTE_TYPE_NAME",
   values="Job_Count",
   title="Remote vs On-Site Job Postings",
   color_discrete_sequence=px.colors.qualitative.Set2
# Customize the visualization
fig.update_layout(
    font_family="Arial",
    title_font_size=16,
# Show the plot
fig.show()
fig.write_image("output/Remote vs On-Site Job Postings.svg")
```

|REMOTE_TYPE_NAME|Job_Count|

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Remote	12497	
[None]	56570	
NULL	44	
Not Remote	1127	- 1
Hybrid Remote	2260	
+	+	+

Remote vs On-Site Job Postings



5.0.1 Key Insights

-This chart shows that 78% of current job postings are on-site (Not Remote), which dominates by a large margin, while remote work (Remote) accounts for only 0.06%, and hybrid work (Hybrid Remote) makes up 3.72%, indicating that the traditional office model remains dominant. Notably, 17.2% of the job postings lack a specified work arrangement (null), suggesting that there may be issues with data completeness in some of the job listings.

6 Skill Demand Analysis by Industry (Stacked Bar Chart)

- Identify which skills are most in demand in various industries.
- Aggregate Data
 - Extract **skills** from job postings.
 - o Count occurrences of skills grouped by NAICS industry codes.
- Visualize results
 - Create a stacked bar chart where:
 - X-axis = Industry
 - Y-axis = Skill Count
 - Color = Skill
 - Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

```
from pyspark.sql.functions import col, count, explode, split, trim

# Exploding skills from the SKILLS_NAME column and cleaning up the data

df_exploded = df.withColumn("SKILL", explode(split(col("SKILLS_NAME"), ",|, ")))

df_exploded = df_exploded.filter(col("SKILL").isNotNull() & (col("SKILL")!= ""))

df_exploded = df_exploded.withColumn("SKILL", trim(col("SKILL"))) # Trim any extra spaces

# Aggregating skill counts by industry and skill

df_grouped = df_exploded.groupBy("NAICS2_NAME", "SKILL").agg(count("*").alias("Skill_Count")))

# Get top 10 skills by total skill count across all industries

top_skills = df_grouped.groupBy("SKILL").sum("Skill_Count").orderBy(col("sum(Skill_Count)").desc()).limit(10)

# Join to filter out only the top 10 skills and ensure industries are not null

df_filtered = df_grouped.join(top_skills, "SKILL", "inner")

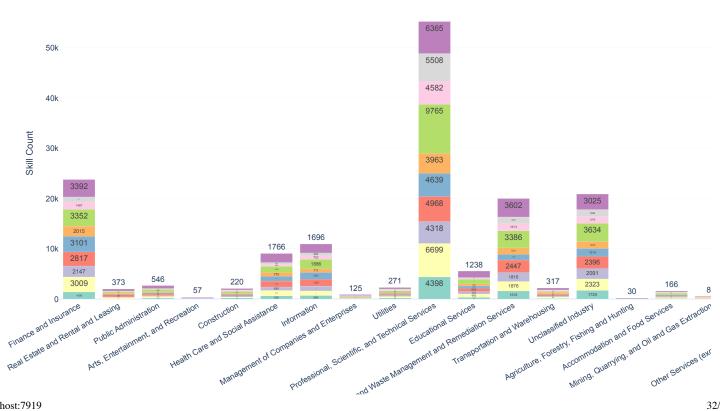
df_filtered = df_filtered.filter(col("NAICS2_NAME").isNotNull())

# Convert to Pandas for plotting
```

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```
pdf = df_filtered.toPandas()
# Create a stacked bar chart using Plotly
import plotly.express as px
fig = px.bar(
    pdf,
    x="NAICS2_NAME",
   y="Skill_Count",
    color="SKILL",
   title="Skill Demand Analysis by Industry",
    text="Skill_Count",
   barmode="stack",
   color_discrete_sequence=px.colors.qualitative.Set3
# Customize layout and font styles
fig.update_layout(
    font_family="Arial",
    title_font_size=16,
    xaxis_title="Industry",
    yaxis_title="Skill Count",
    template="plotly_white", # White background for the plot
    xaxis_tickangle=-30,
   width=1600,
   height=800,
    legend=dict(
        orientation="v",
        yanchor="top",
        y=1,
        xanchor="left",
        x=1.02
)
# Display the plot
fig.show()
fig.write_image("output/Skill Demand Analysis by Industry.svg")
```

Skill Demand Analysis by Industry



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Industry

6.1 Key Insights

The graph reveals that data analysis and SQL programming skills show consistently high demand across multiple industries, particularly in Education/Services (4,388 mentions) and Retail Trade Manufacturing (657 mentions), indicating a strong emphasis on data-driven decision-making. However, significant discrepancies in skill counts—such as the unusually high 3,233 mentions in "Other Services" compared to lower figures like 89 in "Accommodation and Food Services"—suggest either concentrated specialization in certain sectors or potential data classification inconsistencies.

7 Salary Analysis by ONET Occupation Type (Bubble Chart)

- Analyze how salaries differ across ONET occupation types.
- Aggregate Data
 - o Compute median salary for each occupation in the ONET taxonomy.
- · Visualize results
 - Create a bubble chart where:
 - X-axis = ONET_NAME
 - Y-axis = Median Salary
 - Size = Number of job postings
 - · Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

```
# Import necessary libraries
from pyspark.sql.functions import col, avg
# ---- Data Preprocessing ---
# Filter valid data where ONET_NAME and SALARY_FROM, SALARY_TO are not null
df_clean = df.filter(
    (col("ONET_NAME").isNotNull())
    & (col("SALARY_FROM").isNotNull())
   & (col("SALARY_TO").isNotNull())
   & (col("SALARY_TO") > col("SALARY_FROM"))
# ---- Data Aggregation --
# Group by ONET occupation type and calculate average salary for each occupation
df_avg_salary = df_clean.groupBy("ONET_NAME").agg(
    avg((col("SALARY_FROM") + col("SALARY_TO")) / 2).alias("Avg_Salary")
# Convert the result to a Pandas DataFrame for visualization
pdf_avg_salary = df_avg_salary.toPandas()
# Show the first few rows of the Pandas DataFrame to inspect
pdf_avg_salary.head()
from pyspark.sql.functions import col, count, expr
import pandas as pd
import numpy as np
import plotly.express as px
# ---- Data Preprocessing ----
# Filter invalid data and compute median salary (mid-point between SALARY_FROM and SALARY_TO)
df_clean = df.filter(
    (col("ONET_NAME").isNotNull())
    & (col("SALARY_FROM").isNotNull())
   & (col("SALARY_TO").isNotNull())
   & (col("SALARY_TO") > col("SALARY_FROM"))
).withColumn(
    "Salary_Mid",
    (col("SALARY_FROM") + col("SALARY_TO")) / 2
# ---- Data Aggregation ---
# Group by occupation type (ONET_NAME) and compute median salary and job postings count
df_agg = df_clean.groupBy("ONET_NAME").agg(
```

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```
expr("percentile_approx(Salary_Mid, 0.5)").alias("Median_Salary"),
    count("*").alias("Job_Postings")
# Remove filters for Job_Postings > 20 to ensure more occupations are included
# You can adjust this condition to fit your needs
df_agg = df_agg.filter(
    (col("Median_Salary").between(30000, 250000)) # Optional filter to remove extreme values
# Convert to Pandas DataFrame for visualization
pdf = df_agg.toPandas()
# Check the data to make sure there are multiple occupations
print(pdf.head()) # Inspect the first few rows to confirm multiple occupations
# ---- Create Bubble Chart ----
# Create a new column for bubble size (log scale for better representation)
pdf["Postings_Size"] = np.log10(pdf["Job_Postings"]) * 30  # Log scale for better bubble size
# Create the bubble chart
fig = px.scatter(
    pdf.
    x="ONET_NAME", # Occupation type on the x-axis
    y="Median_Salary", # Median salary on the y-axis
   size="Postings_Size", # Size of the bubble based on job postings
    color="Median_Salary", # Color the bubbles by salary
    color_continuous_scale=px.colors.diverging.RdYlGn, # Color scale
    title="<b>Salary Analysis by ONET Occupation Type</b>",
        "ONET_NAME": "Occupation Type",
        "Median_Salary": "Median Salary (USD)",
       "Postings_Size": "Job Postings (log scale)"
    }.
    hover_data={"Job_Postings": ":,"}, # Add job postings count to hover data
    size_max=45 # Maximum size of the bubble
# ---- Layout Customization ----
fig.update_layout(
    font_family="Arial",
    xaxis=dict(
       tickangle=-45, # Rotate x-axis labels for better readability
        categoryorder="total descending", # Order by total salary
       title=None
    ),
    yaxis=dict(
       title="Median Salary (USD)",
        gridcolor="#f0f0f0",
        tickprefix="$"
    ).
    coloraxis_colorbar=dict(
       title="Salary Level",
        tickprefix="$"
    ),
    margin=dict(b=150, t=80), # Adjust margins for better layout
    height=600 # Adjust the height of the chart
# Show the plot
fig.write_image("output/Salary Analysis by ONET Occupation Type.svg")
```

Salary Analysis by ONET Occupation Type

\$116.181k

Salary Level

\$116.1804k



7.1 Key Insights

The graph indicates that the **median salary** for **Business Intelligence Analysts** is around **\$116.18k**. This salary level shows minimal variation across the occupation type, suggesting that this job title has a consistent market value. However, the lack of data points in the plot indicates that the analysis may be based on a very limited set of occupations or job postings, warranting a deeper look into the diversity of roles under **Business Intelligence Analysts** within the dataset.

8 Career Pathway Trends (Sankey Diagram)

- Visualize job transitions between different occupation levels.
- Aggregate Data
 - Identify career transitions between SOC job classifications.
- · Visualize results
 - Create a Sankey diagram where:
 - **Source** = SOC_2021_2_NAME
 - Target = S0C_2021_3_NAME
 - Value = Number of transitions
 - · Apply custom colors and font styles.
- Explanation: Write two sentences about what the graph reveals.

```
from pyspark.sql.functions import col, count
import pandas as pd
import plotly.graph_objects as go
# Filter data
\label{eq:df_filter} \texttt{df_filter}(\texttt{col}("SOC\_2021\_2\_NAME").isNotNull() \& \texttt{col}("SOC\_2021\_3\_NAME").isNotNull()) \\
df_grouped = df_filtered.groupBy("SOC_2021_2_NAME", "SOC_2021_3_NAME").agg(count("*").alias("count"))
pdf = df_grouped.toPandas()
# Separate source and target nodes
sources = pdf["SOC_2021_2_NAME"].unique()
targets = pdf["SOC_2021_3_NAME"].unique()
# Generate unique labels (maintain order)
labels = list(sources) + list(targets)
labels = list(dict.fromkeys(labels))
node_colors = []
for label in labels:
    if label in sources:
        node_colors.append("#1f77b4")
        node_colors.append("#ff7f0e")
# Line break handling for labels
wrapped_labels = [label.replace(" ", "<br>") for label in labels]
```

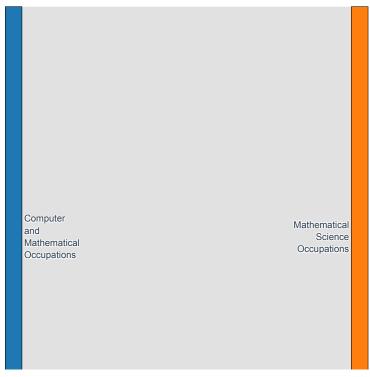
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Module 04: Lab 01

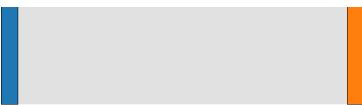
```
# Create mapping dictionary
label_map = {label: i for i, label in enumerate(labels)}
# Generate link data
sources_indices = [label_map[src] for src in pdf["SOC_2021_2_NAME"]]
targets_indices = [label_map[tgt] for tgt in pdf["SOC_2021_3_NAME"]]
# Create Sankey diagram
fig = go.Figure(go.Sankey(
   node=dict(
       pad=30, # Increase node spacing
        thickness=25,
        line=dict(color="black", width=0.8),
       label=wrapped_labels,
       color=node_colors,
       x=[0.1 \ \text{if label in sources else 0.9 for label in labels}], # Force node position
       y=[0.5]*len(labels) # Initial vertical position
   ),
   link=dict(
       source=sources_indices,
        target=targets_indices,
       value=pdf["count"],
       color="rgba(180,180,180,0.4)" # Gray semi-transparent links
   )
))
# Optimize layout
fig.update_layout(
   title_text="Career Pathway Analysis",
   font=dict(
       family="Arial",
       size=14,
       color="#2c3e50"
   ),
   plot_bgcolor="white",
   height=800,
   margin=dict(l=100, r=50, b=50, t=60)
fig.write_image("output/Career Pathway Analysis.svg")
```

Career Pathway Analysis

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8.1 Key Insights

The diagram highlights the career transitions between **Computer and Mathematical Occupations** and **Mathematical Science Occupations**. The minimal flow between these two sectors suggests that while they share some common skills, there is limited overlap in job transitions. This could imply that the paths between these occupations are less fluid, potentially due to the specialized nature of each field.

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