

Module 04: Lab 01

Visual Reporting and Storytelling

VISUALIZATION

PLOTLY

SPARK

VISUAL REPORTING

STORYTELLING WITH DATA

INDUSTRY-SPECIFIC VISUALIZATION

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PUBLISHED

March 20, 2025

MODIFIED

March 21, 2025

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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```

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```

3/37

4/37

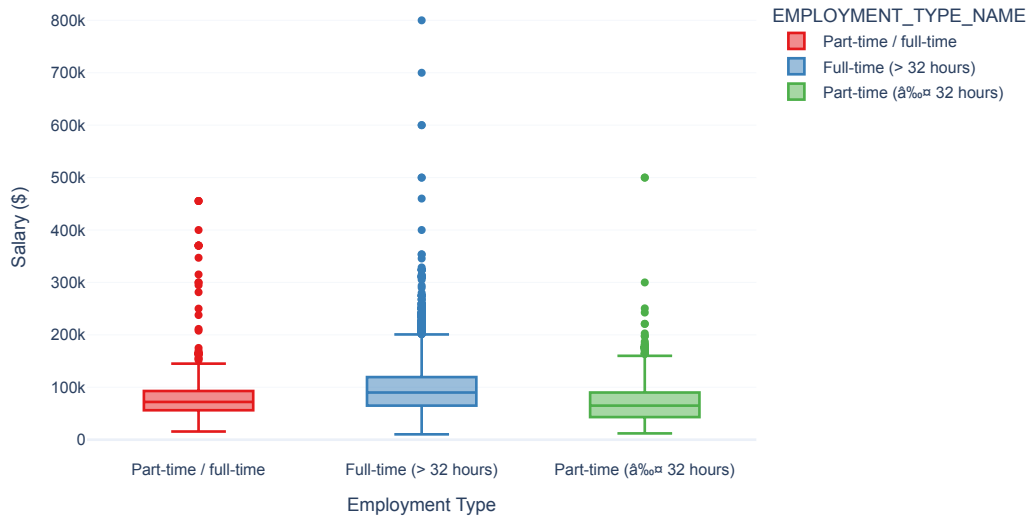

```

    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**
 - Keep records where **salary is greater than zero**.
- **Aggregate Data**
 - Group by **NAICS industry codes**.
- **Visualize results**
 - Create a **box plot** where:
 - **X-axis** = **NAICS2_NAME**
 - **Y-axis** = **SALARY_FROM**
 - 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()

```

```
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)
pdf["NAICS2_NAME"] = 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")
```





[illegible]

Handwriting practice area with horizontal lines and scattered '+' markers.

```
|cb5ca25f02bdf25c13edfede7931508bfd9e858f|6/19/2024      |2024-06-19 07:00:00  |0      |6/2/2024|6/17/2024|15      |[\n
"FreeJobBoard"\n]      |[\n "craigslist.org"\n]      |[\n
"https://modesto.craigslist.org/sls/7747584269.html"\n]
|[|      |NULL      |Comisiones de $1000 - $3000 por semana... Comienza Rapido!!!      |Comisiones de $1000 -
$3000 por semana... Comienza Rapido!!! (MODESTO AND SURROUNDING AREAS) LH/GM compensation: COMMISSION EASY SALES employment type: job
title: SALES Comisiones de $1000 - $3000 por semana... Comienza Rapido!!! No tengas miedo de Comisiones este trabajo es facil nada mas
tienes que aprenderlo con nuestro excelente entrenamiento y empiezas aser dinero Rapido. Company / Compania Lincoln Heritage Life
Insurance Co. More than 60 years in business! TENEMOS MAS DE 60 ANOS EN NEGOCIO!!!! Agency / Agencia GOLDEN MEMORIAL AGENCY #1 Final
Expense Agency in the Country Que vendemos? Seguro de vida: solo un Producto Gastos Finales Planes Funerales" What do we Sell? Small
whole life policies Necesito Experiencia? No se ocupa nada de experiencia, Solo ganas de Aprender ! Do I need Experience? No. All you
need is work ethic to grow with a Winning Team!!! SI No tienes seguro social No te preocupes, si noms tienes un ITIN es suficiente para
sacar la licencia del estado. Cuesta el entrenamiento? No !!! Entrenamiento es Gratis . Tenemos Videos EN INGLES Y
ESPANOL..... Online Training.....In person Class Training.....&.....Field Training with a Manager. Que se
ocupa para tener xito y hacer dinero ? Presntate cada da con una actitud positiva y listo para trabajar al 100. 100% comisin How much
money can you make in a year? Our Agents are making from $35,000 to $150,000 Annually, Managers are making from $200,000 to over 1
Million Annually. What makes our Final Expense Company a Great Company to work for? 1. We get paid in 24hrs. Sell a plan and submit a
application with a 1st payment Check, you get paid within 24hrs direct deposit into your bank account. 2. We give coverage to 98% of
people regardless of their Health conditions. 3. We pay out claims within 24 to 48hrs 4. We give coverage to people who Do Not have a
social security number. 4. We have a Accidental, Death & Dismemberment Rider for $5.00 ($100,000 additional coverage) 5. We have a Child
Rider $4 per child $10,000 coverage 6. Our Clients receive a Free Membership to Funeral Consumer Guardian Society, which helps the
customer plan their final wishes and Funeral exactly as they choose. (This Free membership to FCGS can save them up to $4000 on a
Traditional Funeral and $600 on a Cremation) Down below are the Qualifications to work on our Team Full Time & Part Time Must Follow our
Training System. Give me a call and leave me a brief message. Gracias!!!! Thanks!!!! IF YOU HAVE MORE QUESTIONS TEXT OR CALL ME SO I CAN
EMAIL YOU MORE INFORMATION TO GET YOU STARTED. CALL OR TEXT ME TODAY 800-307-1269 Please leave a message!!! Llame Hoy !! 800-307-1269
Porfavor deja su mensaje!!! CALL OR TEXT ME TODAY 800-307-1269 Please leave a message!!! Llame Hoy !! 800-307-1269 Porfavor deja su
mensaje!!! Oscar 800-307-1269 Porfavor deja su mensaje Principals only. Recruiters, please don't contact this job poster. post id:
7747584269 updated: [ ]
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CA      |33700|Modesto, CA      |6      |California |6099      |Stanislaus, CA      |6099      |Stanislaus,
CA      |33700      |Modesto, CA      |33700      |Modesto, CA      |99      |Unclassified Industry
```

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|99999 |Unclassified Industry |999999|Unclassified Industry
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|Oracle Consultant / Analyst |2310 |Business Intelligence |23101012 |Oracle Consultant /
Analyst |231010 |Business Intelligence Analyst |2310 |Business Intelligence |23
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Board"\n] |[\n "dejobs.org"\n] |[\n
"https://dejobs.org/little-rock-ar/sr-lead-data-analyst/2ABE6B1C65D942CF8626D0EA8EBB1A4D/job/"\n]
|[] |NULL |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
guidance 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\n Compensation\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\n$94420\n\nSalary Max :\n\n$145770\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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13/37

analyses using first-party, second-party and 3rd party data sources; turns data and analysis into actionable insights and communicates findings for better understanding and buy-in

Independently work on analytical projects involving large amounts of data, statistical modeling / machine learning

Perform 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

Coordinate and assist in the analysis design, optimize existing analytical process to improve efficiency and effectiveness

Work across an interdisciplinary team to prioritize and coordinate tasks, monitor progress and issues, and facilitate team meetings

Translate and summarize technical and analytical information for business audiences and develop stories that help address business problems

Qualifications:

- Minimum 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
- The minimum education level required is a Bachelor's degree. Master's degree preferred.
- Acceptable fields of study: Economics, Business Administration, Statistics, Data Science, Computer Science, Marketing, Management Information Systems, Operations Research, Mathematics or related fields
- Familiarity with analytics concepts such as databases, programming, statistical modeling, machine learning, data visualization
- Advanced skills in MS Office, specifically PowerPoint, Excel and Word as well as the Google Productivity Suite (Google Sheets, Google Slides, Google Docs)
- Experience 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.

The 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.

Base 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 non-sales 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.

Equal Employment Opportunity:

In 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.

Applications will be accepted on an ongoing basis until the position is filled.

Medidata 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.

#LI-MW1

#LI-Hybrid

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	New York, NY	35620	New York-Newark-Jersey City, NY-NJ-PA	35620	New York-Newark-Jersey City, NY-NJ	54
Professional, Scientific, and Technical Services		541	Professional, Scientific, and Technical Services			
5415	Computer Systems Design and Related Services	54151	Computer Systems Design and Related Services			
541511	Custom Computer Programming Services		ET1CE3CFA5447376E9	Marketing Analysts	sr	
marketing analyst			"KS4407N6CMTCTY0NYSVM", "KS1247H7701DW05BS80N"			
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["Business, Management, Marketing, and Related Support Services", "Social Sciences", "Computer and Information Sciences and Support Services", "Multi/Interdisciplinary Studies"]
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|231113 |Data / Data Mining Analyst |23111310 |Data Analyst |2311 |Data Analysis and Mathematics |23111310 |Data Analyst |231113 |Data / Data Mining Analyst |2311 |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|15-2051|Data Scientists|["7"]
["Artificial Intelligence"]
54 |Professional, Scientific, and Technical Services|541 |Professional, Scientific, and Technical Services |5415 |Computer Systems Design and Related Services |54151 |Computer Systems Design and Related Services |541511 |Custom Computer Programming Services |
|b7aa80a24c82f080cca31a8b5b720824eb2b71f3|9/28/2024 |2024-09-28 14:06:14.129|8 |6/2/2024|9/27/2024|NULL |["Government", "Company", "Job Board"]
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|[] |NULL |Data Analyst
|Data Analyst In Ridgecrest At DCS|Date Posted: 5/20/2024|Location: \n\nRidgecrest|Job Type: \n\nResearch|Information Technology|Experience: \n\nNot Specified|Date Posted: \n\n5/20/2024|Job ID: \n\n6300|Security Clearance Level: \n\nTop Secret|Remote|No|Job Description|Salary Range: $91,559 - $123,732|The 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.
Essential Job Functions:
The 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.
Actively participate in test planning of ground, laboratory, and flight test events to ensure decision quality test data is collected.
Perform timely and accurate analysis to support decision authorities. The ideal candidate will have analysis experience in aircraft Mux, 1553, and Fibre data.
Interface with other government agencies and work with contractors on acquisition programs to assure that the Navy's interests are met.
Design data analysis processes to assess the performance of various systems and system concepts over development cycles.
Develop requirements for test scenarios and associated documentation in flight cards.
Review system level documentation and provides changes and recommendations.
Develop test methods for evaluating performance and designs test scenario(s) to yield valid and measurable quantitative test results.
Utilize scripting languages to manipulate and draw conclusions from large data sets.
Develop data analysis tools to streamline and automate data analysis, processing, and reporting.
Develop test support, instrumentation, and data recording requirements to facilitate collection of critical flight test data.
Assess and resolve engineering issues real time during test missions.
Analyzes test data (real-time and post-mission) to understand test results, draws conclusions and assess mission results.
Participate in pre- and post-test briefings and advise on system troubleshooting and behavior.
Communicate test results verbally and in writing to technical and non-technical audiences.
Leverage analytical studies to evaluate and advise on system architecture or potential alternative solutions.
Report 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.
Support laboratory and flight testing.
Travel may be desired of the incumbent but is not a requirement for this position.
Required Skills:
Due to the sensitivity of customer related requirements, U.S. Citizenship is required.
Bachelor'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.
Excellent communication skills and able to liaison with outside agencies and ability to work independently.
Must demonstrate an ability to analyze and interpret multiple technical data sets, and organize/present data into tables, charts, graphs to support program requirements.
Ability to learn how to use multiple data analysis tools and software packages for data reduction and display.
Experience with coding in MatLab and visual basic to develop new analysis tools and/or modify existing MatLab, Python and Excel tools.
Basic understanding test plans, and Detailed Methods of Test for all weapons systems undergoing initial integration or regression testing on the F/A-18 aircraft.
Able to multitask, prioritize, and manage time efficiently.
Possess high moral character and integrity.
Ability to acquire and obtain Top Secret Clearance.
Desired Skills:
Familiarization with Agile and the ability to work within small groups or Scrum teams.
Job Requirements
6300
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|Bachelor's degree |1 |Full-time (> 32 hours)|10 |NULL |false |107645|2 |Not Remote |year |123732 |91559 |["lat": 35.6224561, "lon": -117.6708966]|Um1kZ2VjcmVzdCwgQ0E=
|Ridgecrest, CA |6029 |Kern, CA |12540|Bakersfield, CA |6 |California |6029 |Kern, CA

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|6029      |Kern, CA      |12540      |Bakersfield, CA      |12540      |Bakersfield-Delano, CA
|42      |Wholesale Trade      |423      |Merchant Wholesalers, Durable Goods
|4238      |Machinery, Equipment, and Supplies Merchant Wholesalers      |42383      |Industrial Machinery and Equipment Merchant
Wholesalers|423830|Industrial Machinery and Equipment Merchant Wholesalers      |ET3037E0C947A02404|Data Analysts
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"Technical Engineering",\n "Scrum (Software Development)",\n "Top Secret-Sensitive Compartmented Information (TS/SCI Clearance)",\n
"Python (Programming Language)",\n "Distributed Control Systems",\n "Test Planning",\n "Time Management",\n "Data Analysis",\n "Data
Reduction",\n "Internet Protocol Telephony",\n "Integration Testing",\n "Systems Architecture",\n "Test Data",\n "Troubleshooting
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|[\n "Python (Programming Language)",\n "Visual Basic (Programming Language)",\n "MATLAB"\n]
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Scientists|23      |Information Technology and Computer Science|231113      |Data / Data Mining Analyst      |23111310
|Data Analyst      |2311      |Data Analysis and Mathematics      |23111310      |Data Analyst
|231113      |Data / Data Mining Analyst      |2311      |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|15-2051|Data Scientists|NULL      |NULL      |42      |Wholesale Trade
|423      |Merchant Wholesalers, Durable Goods      |4238      |Machinery, Equipment,
and Supplies Merchant Wholesalers      |42383      |Industrial Machinery and Equipment Merchant Wholesalers|423830      |Industrial
Machinery and Equipment Merchant Wholesalers
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"https://www.simplyhired.com/job/InNNBIUXJATrb3DfveJiT9e0549QjwVr98VhsZy9heZP00q1F_foya"\n]
|[]      |NULL      |Power, Utilities & Renewables Consulting Manager, Enterprise Asset Management|Power, Utilities &
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 judgment. Required Qualifications Bachelor's degree 6 + years' experience working with Utilities clients or experience working within 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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|Wayne, MI      |19820      |Detroit-Warren-Dearborn, MI      |19820      |Detroit-Warren-Dearborn, MI      |54
|Professional, Scientific, and Technical Services|541 |Professional, Scientific, and Technical Services
|5416 |Management, Scientific, and Technical Consulting Services|54161 |Management Consulting Services
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|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|231010      |Business Intelligence Analyst      |23101011

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18/37

test of various types of Invoices based on client specific business process. Design and configuration for Payment Terms, Customer Invoicing & Payments Process, FSCM Credit, Disputes & Collections Management modules. Perform testing cycles across teams as well as cutover activities as required for go-live preparation. Preparation of end user documents and functional design documents. Guide performance testing & training teams rolling out a successful module to the user community. Resolve Defects during Testing, Cutover and Hypercare phases. Travel may be required for this role. The amount of travel will vary from 0 to 100% depending on business need and client requirements. 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' work experience). If Associate's Degree, must have equivalent minimum 6-year work experience. Bonus Points If: You have team lead experience. You have external client-facing consulting experience. You have experience in migrating traditional receivables management to SAP FSCM. You have functional expertise in several Finance areas including General Ledger Accounting, Accounts Receivable, Accounts Payable, Fixed Assets, Product Costing/Actual Costing/Material Ledger, Cost & Profit Center Accounting, Internal Orders. Compensation at Accenture varies depending on a wide array of factors, which may include but are not limited to the specific office location, role, skill set, and level of experience. As required by local law, Accenture provides a reasonable range of compensation for roles that may be hired in California, Colorado, New York or Washington as set forth below. We accept applications on 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 that every one of our people has a full sense of belonging within our organization. As a business imperative, every person at Accenture has the responsibility to create and sustain an inclusive environment. Inclusion and diversity are fundamental to our culture and core values. Our rich diversity makes us more innovative and more creative, which helps us better serve our clients and our communities. Read more here Equal Employment Opportunity Statement Accenture is an Equal Opportunity Employer. We believe that no one should be discriminated against because of their differences, such as age, disability, ethnicity, gender, gender identity and expression, religion or sexual orientation. All employment decisions shall be made without regard to age, race, creed, color, religion, sex, national origin, ancestry, disability status, veteran status, sexual orientation, gender identity or expression, genetic information, marital status, citizenship status or any other basis as protected by federal, state, or local law. Accenture is committed to providing veteran employment opportunities to our service men and women. For details, view a copy of the Accenture Equal Employment Opportunity 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 Accenture and require accommodation to perform the essential functions of your role, you will be asked to participate in our reasonable accommodation process. Accommodations made to facilitate the recruiting process are not a guarantee of future or continued accommodations once hired. If you would like to be considered for employment opportunities with Accenture and have accommodation needs for a disability or religious 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 authorization that does not now or in the future require sponsorship of a visa for employment authorization in the United States. Candidates who are currently employed by a client of Accenture or an affiliated Accenture business may not be eligible for consideration. Job candidates will not be obligated to disclose sealed or expunged records of conviction or arrest as part of the hiring process. The Company will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. Additionally, employees who have access to the compensation information of other employees or applicants as part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the Company's legal duty to furnish information.

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Professional, Scientific, and Technical Services 541	Professional, Scientific, and Technical Services					
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/ Consultant |231010|Business Intelligence Analyst |2310|Business Intelligence |23
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Architect\nBirmingham, Alabama\nSurgical Care Affiliates\nTechnology\nRegular\nFull-time\n1\nUSD $160,000.00/Yr.\nUSD
$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
going and 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:\nDocument and develop in-depth knowledge of existing IT Infrastructure &
Network Architecture and Technology portfolio.\nAlign the Information Technology (IT) strategy and solutions, with the Company's
business objectives.\nBuild, maintain, promote, and evangelize an enterprise view of the IT architectural blueprint and roadmap.\nResearch 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.\nCollaborate with PMO,
business users, and stakeholders across various projects to understand functional and technical aspects of projects, ensuring adherence
to Enterprise Architecture principles.\nCollaborate and partner with Optum to understand broader roadmap.\nRepresent SCA Health and be
an influencing voice at the table.\nAnalyze the IT Infrastructure & Network environment to detect critical deficiencies and recommend
solutions for improvement.\nSupport developing business case and cost benefit analysis, while reducing project risk.\nOrchestrate,
design, and architect solutions that leverage the existing investment made in current heterogeneous IT. Drive to homogenize the
technology environment.\nProvide portfolio governance and oversight to drive lifecycle optimization and alignment across all
initiatives.\nPresent 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.\nArticulate
technology solutions and analytical findings to Executive Management, Business leadership, software developers, and end users\nDevelop,
document, communicate, and enforce technology standards.\nInfluence and guide implementation best practices at the individual performer
level, work through technology challenges faced by the team, and provide solutions.\nContribute to the growth and maturity of the IT
department by providing mentorship, fostering development and knowledge transfer, and thought-leading by example.\nDevelop, manage and
publish Technical Reference Architectures and various levels of Architecture diagrams.\nMonitor and manage Technical Debt within the
environment. Define, track, and report accrued value through the life of technology.\nShares 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.\nAdditional duties as assigned.\nQualifications\nBachelor's degree or equivalent
work experience.\n8-10+ years of experience with Enterprise Infrastructure support, with strong focus on Networking (Cisco, Juniper
Arsita), Infrastructure (VM Ware, Citrix)\n5+ years of experience working in an architect or technical leadership capacity, most recent
role included in Networking and/or Infrastructure space.\nSolid understanding of interoperability issues in a hybrid environment -
traditional data center and cloud (Azure) setting.\nProven 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.\nKnowledge of TOGAF, ITSM and ITIL\nExcellent design pattern skills irrespective of technology, and willingness to assume total
ownership of technology solutions from inception to delivery.\nFluency in modern-day IT management concepts, including strategic
planning, enterprise architecture, capital planning, cloud computing, and IT portfolio management.\nExperience in creating an effective
framework and process model for establishing enterprise-wide infrastructure architecture.\nAbility and willingness to document
Infrastructure/Network/Security architecture and dependencies for existing platforms, that are currently in use at SCA.\nUnderstanding
and experience implementing the strategic alignment of business and IT.\nDemonstrated competency in communicating the value of
enterprise architecture to stakeholders and senior management.\nStrong interpersonal, verbal and written communication skills, with the
ability to develop and conduct executive-level presentations.\nAbility to collaborate and influence with various levels of individuals -
both IT and business.\nExperience with Vendor management and building vendor relationships.\nSelf-directed with the ability to work
effectively under tight deadlines.\nExperience 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
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|13820|Birmingham-Hoover, AL|13820|Birmingham, AL|62|Health Care and Social
Assistance|621|Ambulatory Health Care Services|6214
|Outpatient Care Centers|62149|Other Outpatient Care Centers
|621493|Freestanding Ambulatory Surgical and Emergency Centers|ET7767EEDBF263F7B7|Principal Architects|principal

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21/37

CTO, CP0, and other C-level executives. You'll support impactful initiatives , including pricing, 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.

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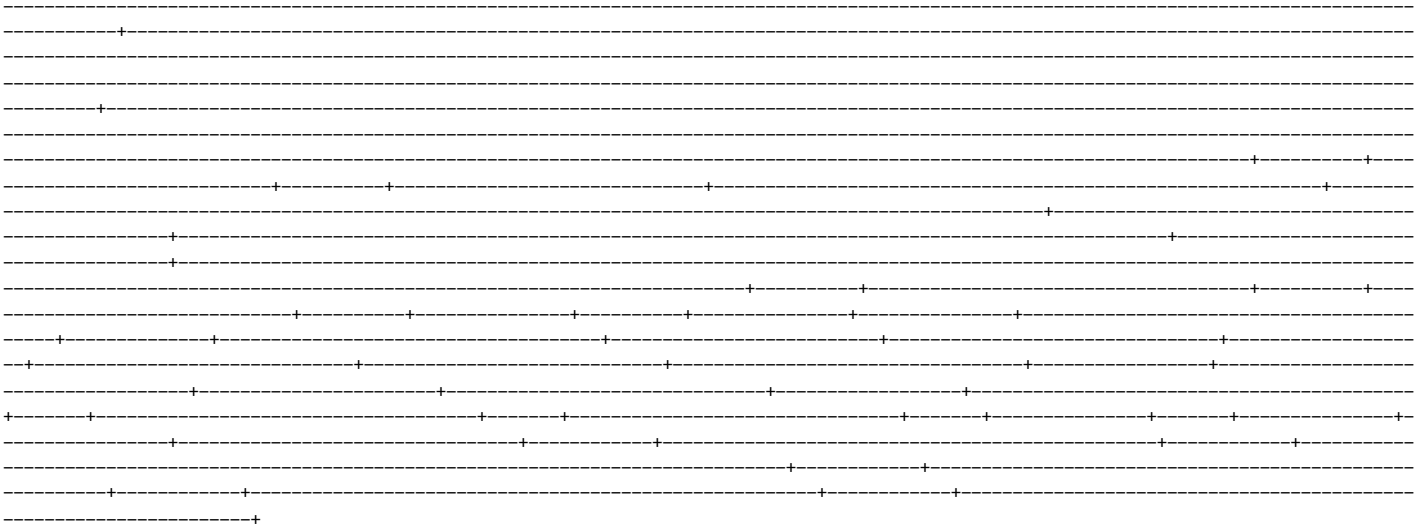
7/27/2024      155      40794223|Aircall International Limited|Aircall      |false      |[\n 99\n]
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Francisco, CA |41860      |San Francisco-Oakland-Berkeley, CA |41860      |San Francisco-Oakland-Fremont, CA |99      |Unclassified
Industry      999      |Unclassified Industry      9999
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|[\n  "Curiosity",\n  "Business Continuity Planning",\n  "Growth Strategies",\n  "Customer Acquisition Management",\n  "Interpersonal
Communications",\n  "Finance",\n  "Influencing Skills",\n  "C (Programming Language)",\n  "Self Service Technologies",\n  "Product
Strategy",\n  "Equities",\n  "Governance",\n  "Python (Programming Language)",\n  "Analytics",\n  "Team Processes",\n  "Decision
Making",\n  "Marketing",\n  "Packaging And Labeling",\n  "Data Analysis",\n  "SQL (Programming Language)",\n  "Sales",\n  "Technical
Acumen",\n  "Data Governance",\n  "Customer Relationship Management",\n  "New Product Development"\n]
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"Team Processes",\n  "Marketing",\n  "Data Analysis",\n  "SQL (Programming Language)",\n  "Data Governance",\n  "Customer Relationship
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Labeling",\n  "Sales",\n  "Technical Acumen"\n]
|[\n  "KS1200364C9C1LK3V5Q1",\n  "KS125LS6N7WP4S6SFTCK",\n  "KS440W865GC4VRBW6LJP"\n]
|[\n  "C (Programming Language)",\n  "Python (Programming Language)",\n  "SQL (Programming Language)"
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|[]
|[]
|[]
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Scientists|23      |Information Technology and Computer Science|231113      |Data / Data Mining Analyst      |23111310
|Data Analyst      |2311      |Data Analysis and Mathematics      |23111310      |Data Analyst
|231113      |Data / Data Mining Analyst      |2311      |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|15-2051|Data Scientists|[\n 6\n] |[\n "Data Privacy/Protection"\n]|99 |Unclassified Industry
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 |99999 |Unclassified Industry |999999 |Unclassified Industry
 |
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 Board"\n] |[\n "dejobs.org"\n] |[\n
 "https://dejobs.org/nashville-tn/sr-lead-data-analyst/0C4D0A811B234807A3AA61977A3DC52F/job/"\n]
 |[] |NULL |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
 guidance 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\nProvides business analysis and support for Mass Markets
 Dispatch Operations teams\n\nCreates ad-hoc reports along with creation and presentation of quality dashboards that provide operational
 visibility to the business unit(s)\n\nDefines and provides data evidence to support business cases and quantify business opportunities
 for optimization\n\nDefines the data gathered and determines patterns pertaining to key performance indicators (KPIs) and business
 challenges\n\nDefines and provides data to support 'control' of delivered solutions (value realization)\n\nDevelops high quality
 graphs, reports, and presentations of data results\n\nPerforms statistical analyses when needed\n\nIdentifies, analyzes, and interprets
 trends or patterns in sometimes complex data sets\n\nPresents standard data sets and information in an understandable and compelling
 manner\n\nExecutes different data analytics to ensure the completeness, quality, and consistency of data used for analytics across
 systems\n\nIdentifies, analyzes, documents, and improves existing business processes\n\nConfirms business assumptions with data driven
 facts\n\nCollaborates with all Mass Markets Dispatch Operations teams on data, results, and findings\n\nWhat We Look For in a
 Candidate\n\nDemonstrated ability in developing complex automated Business Intelligence solutions using software such as Power BI,
 QlikSense, Tableau, or Looker\n\nPL/SQL experience\n\nDatabase Management Systems experience such as Oracle, Microsoft SQL Server, or
 Snowflake\n\nPython development experience\n\nExtract, Transfer, Load (ETL) experience\n\nCombined IT and Business Operations
 background\n\nBachelor's Degree preferred, or equivalent combination of education, training, and experience\n\nFireworks/Bidmaster
 experience\n\nVBA/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
 :\$94420\n\nSalary Max :\$145770\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
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 |1 |Full-time (> 32 hours)|NULL |NULL |false |110155|1 |Remote |year
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 county], TN|NULL |NULL |NULL |51 |Information
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 |51781 |All Other Telecommunications |517810|All Other Telecommunications
 |ET95DB859B53CCACA7|Lead Data Analysts |sr lead data analyst |[\n
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 "KS1218Y74WJ6YV4KH0DM",\n "KS127S260YZR8B5CQKV1",\n "KS125LS6N7WP4S6FTCK",\n "KS1218L60PDVZX16NZT1",\n "KS125MK6L8XN70ZS40ZY",\n
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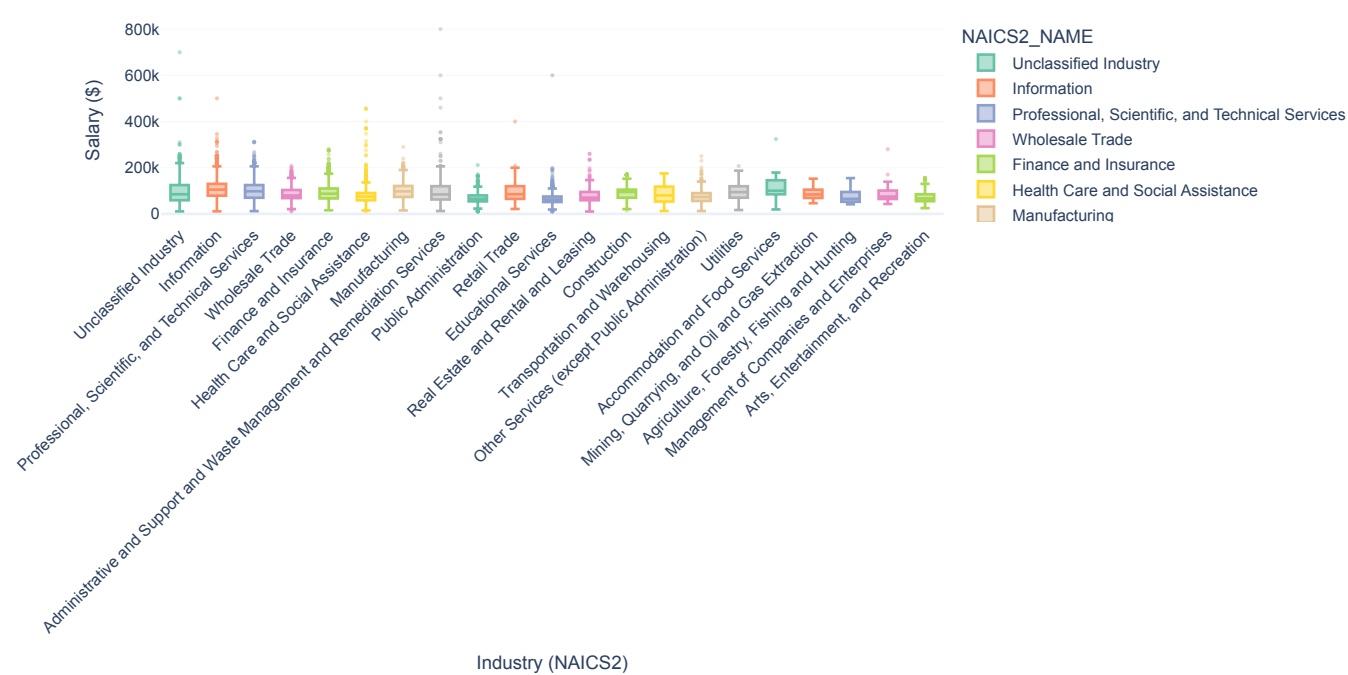
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```



only showing top 10 rows

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
 - Count job postings per **posted date (POSTED)**.
- Visualize results
 - Create a **line chart** where:
 - X-axis = **POSTED**

- **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")
```

```
+-----+
|POSTED |
+-----+
|8/6/2024 |
|5/8/2024 |
|9/19/2024|
|6/24/2024|
|9/12/2024|
|5/28/2024|
|7/16/2024|
|8/20/2024|
|6/15/2024|
```

|8/28/2024|

+-----+

only showing top 10 rows

+-----+

|POSTED |

+-----+

|2024-09-18|

|2024-05-30|

|2024-06-12|

|2024-08-27|

|2024-06-04|

|2024-05-25|

|2024-08-30|

|2024-07-08|

|2024-09-10|

|2024-08-05|

+-----+

only showing top 10 rows

Rows after grouping: 154

+-----+-----+

| POSTED|Job_Count|

+-----+-----+

| NULL | 22 |

|2024-05-01| 506 |

|2024-05-02| 437 |

|2024-05-03| 679 |

|2024-05-04| 573 |

|2024-05-05| 159 |

|2024-05-06| 169 |

|2024-05-07| 516 |

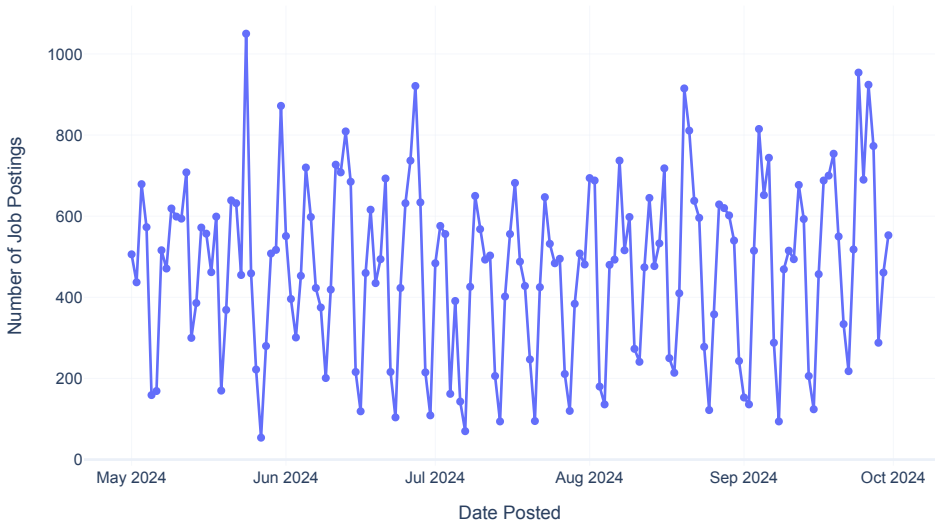
|2024-05-08| 471 |

|2024-05-09| 619 |

+-----+-----+

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**

- 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",
    color_discrete_sequence=px.colors.qualitative.Set3
)

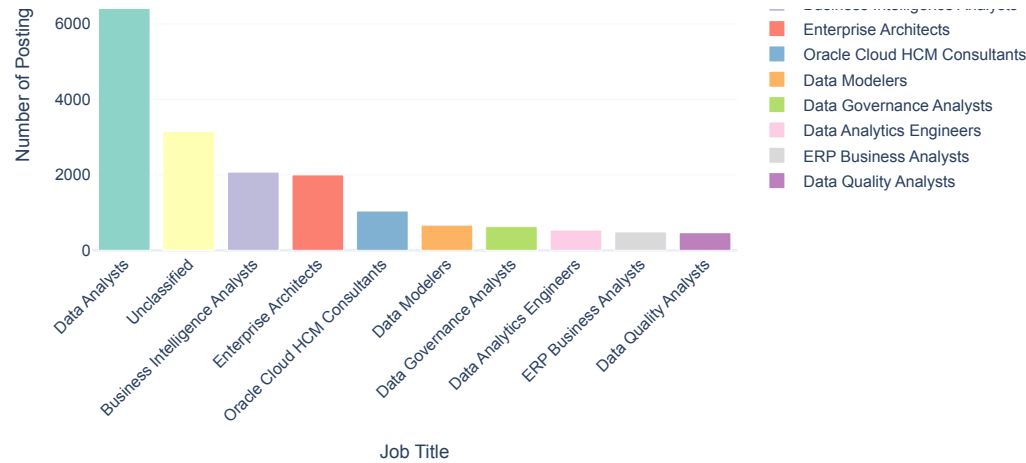
# Customize the visualization
fig.update_layout(
    font_family="Arial",
    title_font_size=16,
    xaxis_title="Job Title",
    yaxis_title="Number of Postings",
    template="plotly_white",
    xaxis_tickangle=-45 # Rotate labels for better readability
)

# 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

Top 10 Job Titles by Count





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**
 - Create a **pie chart** where:
 - **Labels** = REMOTE_TYPE_NAME
 - **Values** = 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

# 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
)

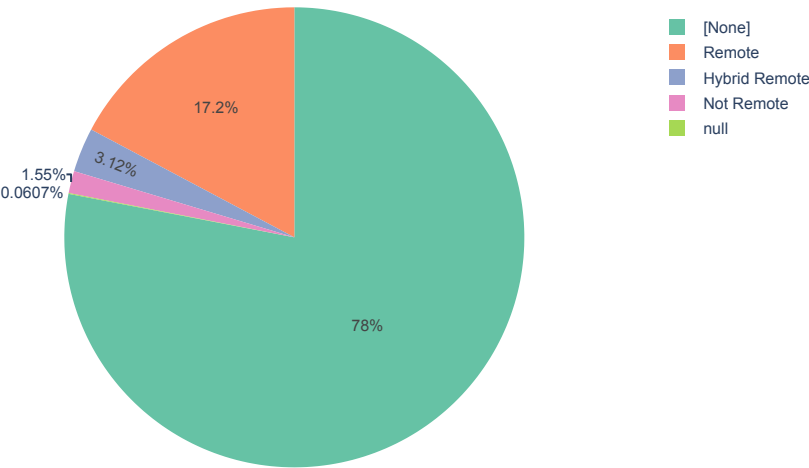
# Customize the visualization
fig.update_layout(
    font_family="Arial",
    title_font_size=16,
)

# Show the plot
fig.show()
fig.write_image("output/Remote vs On-Site Job Postings.svg")
```

[REMOTE_TYPE_NAME Job_Count	

Remote	12497	
[None]	56570	
NULL	44	
Not Remote	1127	
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.
 - 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
```

```
pdf = df_filtered.toPandas()

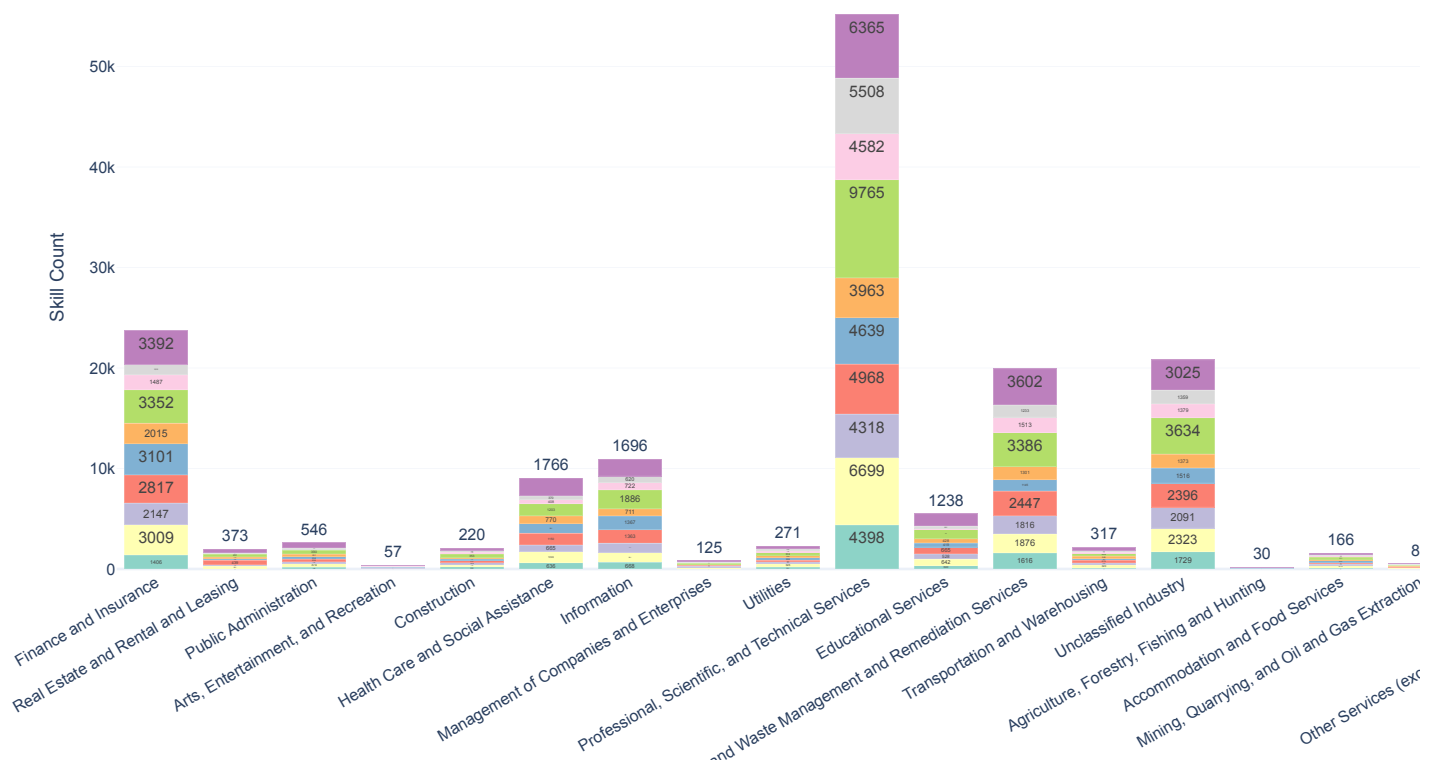
# Create a stacked bar chart using Plotly
import plotly.express as px

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



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**
 - 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(
```

```
    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

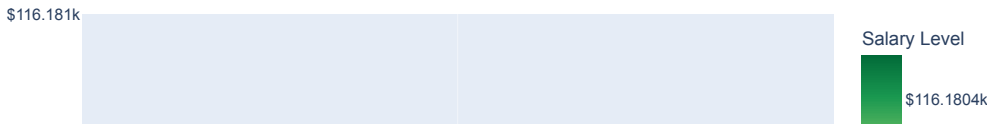
# Create the bubble chart
fig = px.scatter(
    pdf,
    x="ONET_NAME", # Occupation type on the x-axis
    y="Median_Salary", # Median salary on the y-axis
    size="Postings_Size", # Size of the bubble based on job postings
    color="Median_Salary", # Color the bubbles by salary
    color_continuous_scale=px.colors.diverging.RdYlGn, # Color scale
    title="<b>Salary Analysis by ONET Occupation Type</b>",
    labels={
        "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
)

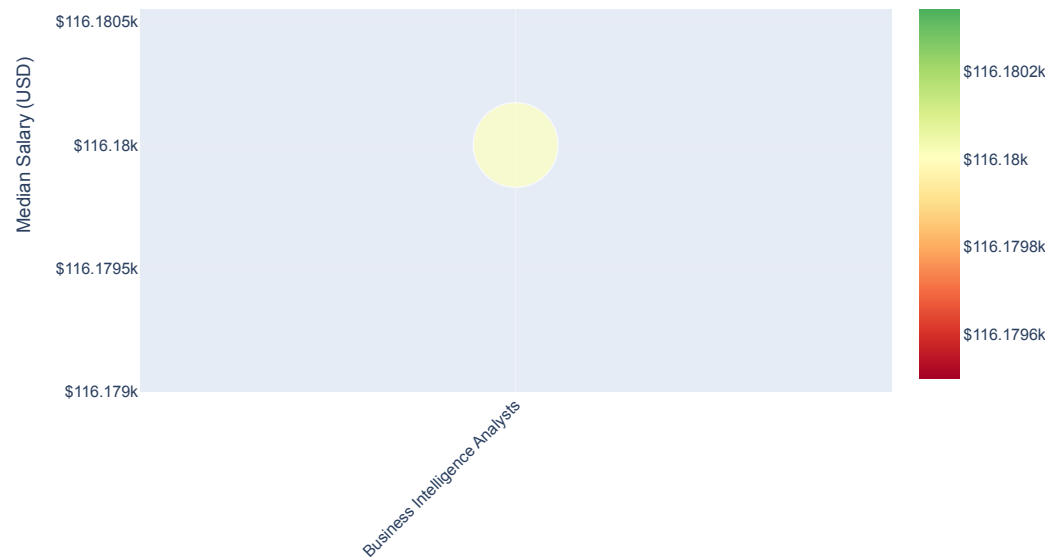
# ---- Layout Customization ----
fig.update_layout(
    font_family="Arial",
    xaxis=dict(
        tickangle=-45, # Rotate x-axis labels for better readability
        categoryorder="total descending", # Order by total salary
        title=None
    ),
    yaxis=dict(
        title="Median Salary (USD)",
        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.show()
fig.write_image("output/Salary Analysis by ONET Occupation Type.svg")
```

	ONET_NAME	Median_Salary	Job_Postings
0	Business Intelligence Analysts	116180.0	28727

Salary Analysis by ONET Occupation Type





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** = `SOC_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
df_filtered = df.filter(col("SOC_2021_2_NAME").isNotNull() & col("SOC_2021_3_NAME").isNotNull())

# Aggregate data
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")
    else:
        node_colors.append("#ff7f0e")

# Line break handling for labels
wrapped_labels = [label.replace(" ", "<br>") for label in labels]
```

```

# 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"]]

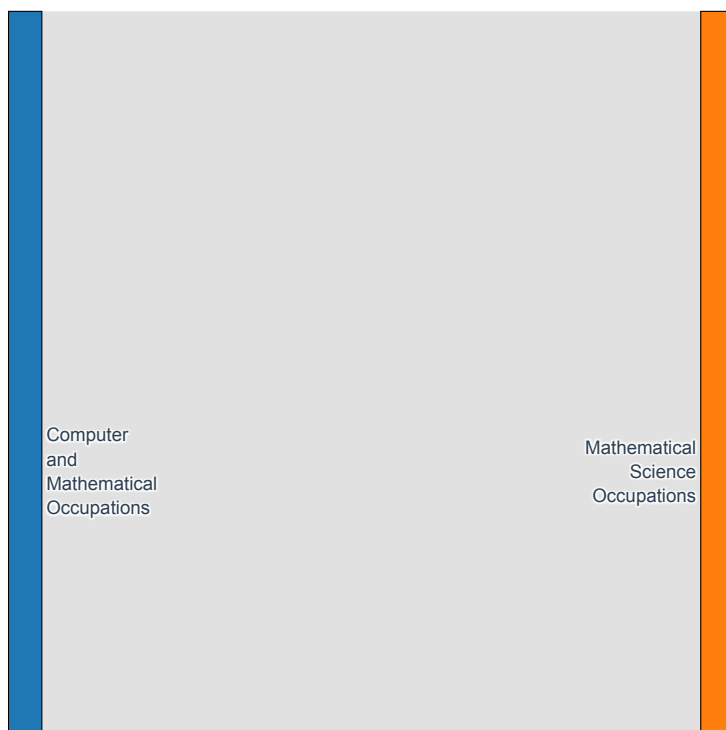
# Create Sankey diagram
fig = go.Figure(go.Sankey(
    node=dict(
        pad=30, # Increase node spacing
        thickness=25,
        line=dict(color="black", width=0.8),
        label=wrapped_labels,
        color=node_colors,
        x=[0.1 if label in sources else 0.9 for label in labels], # Force 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
    )
))

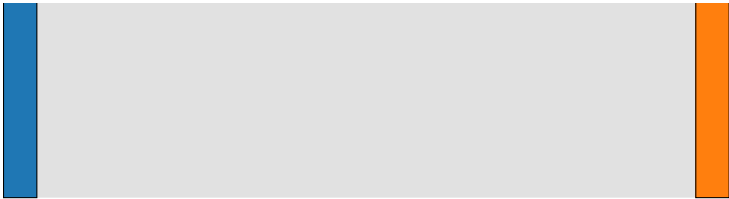
# Optimize layout
fig.update_layout(
    title_text="Career Pathway Analysis",
    font=dict(
        family="Arial",
        size=14,
        color="#2c3e50"
    ),
    plot_bgcolor="white",
    height=800,
    margin=dict(l=100, r=50, b=50, t=60)
)

fig.show()
fig.write_image("output/Career Pathway Analysis.svg")

```

Career Pathway Analysis





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.