

ROHITH PANCHINENI

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SUMMARY

Data analyst with over 2.5 years of experience in data management, analysis, and automation. Passionate about solving data problems and leveraging technology to uncover insights and support strategic decision-making.

WORK EXPERIENCE

Research Data Analyst, Center for Urban Transportation Research, USF

Remote, USA

September 2023 - Present

- Performed statistical analysis, including t-tests, on mobile phone usage and driving patterns, identifying key metrics to inform road safety initiatives and decrease accidents by 12%.
- Developed transportation data visualizations with Python, Power BI, and ArcGIS, driving spatial analysis that improved infrastructure planning efficiency, saving approximately 150 hours of planning time annually.
- Implemented APIs and proactively conducted data analysis to support research projects, achieving a 33% reduction in data processing time.

Business Intelligence Analyst, Accenture Solutions Pvt Ltd

India

July 2021- August 2022

- Engineered and optimized ETL processes, leading to a 43% reduction in data errors and a 28% increase in operational efficiency in analyzing pharmacy claims data.
- Designed and streamlined complex SQL queries, reducing query execution time by 30% and improving database performance.
- Conducted SQL-based data discrepancy investigations (root cause analysis) on Oracle databases, achieving a 72% error reduction by implementing targeted corrections.
- Documented and standardized root cause analysis procedures in Microsoft Word, resulting in a 48% reduction in the time taken to conduct investigations.
- Introduced real-time Tableau dashboards, cutting insurance claim processing time by 18%, reducing manual workload by 42%, and saving \$15,000 annually in labor costs.
- Automated auditing process through ETL jobs, Python, and shell scripts, reducing audit report generation time from 8 hours to 1 hour.

Data Analyst Intern, Cognizant Technology Solutions

India

Dec 2020 – July 2021

- Streamlined data processing by implementing automated ETL pipelines in Azure Data Factory, resulting in an 18% reduction in data loading time and improving overall data transfer efficiency.
- Analyzed and synthesized data from **Salesforce** and SQL databases to identify and report on key performance metrics, driving data-driven decisions.
- Analyzed telecom customer data using advanced statistical methods, resulting in a 15% increase in customer retention rates within six months.

PROJECT EXPERIENCE

MDW: Membership Data Warehouse (Informatica, Excel, Linux)

- Managed healthcare claims data, overseeing ETL pipelines developed using Informatica.
- Administered ad hoc tasks and automated processes to generate and distribute reports to stakeholders during daily meetings.
- Performed routine maintenance and upgrades on a monthly, biweekly, and yearly basis.
- Efficiently resolved tasks using ServiceNow ticketing system.

Covid-19 Time-Series Forecasting (LSTM, GRU and ARIMA)

- Carried out data preprocessing and cleaning to ensure accurate and high-quality data for analysis.
- Architected a regression model with three machine learning algorithms to forecast global COVID-19 cases for ten days, achieving a low RMSE of 100 and an R² score of 0.95.

Bank Loan Analysis Dashboard(PowerBI, SQL, Excel)[Bank Loan - Power BI](#)

- Extracted and cleaned loan data using SQL queries and Excel, resulting in a dataset of 38,000 records.
- Calculated key KPIs such as Total Loan Applications, Total Funded Amount, Average Interest Rate (12%), and Average Debt-to-Income Ratio (13.3%) using Excel and SQL.
- Constructed dynamic Power BI dashboards showcasing KPIs including Good Loan Application Percentage (86%) and Bad Loan Application Percentage (14%), along with additional metrics like Month-to-Date Loan Applications (4,300) and Good Loan Funded Amount (\$370.2M).
- Incorporated various chart types to visualize loan term analysis, employee length analysis, loan purpose breakdown, and home ownership analysis, facilitating easy interpretation and decision-making.

EDUCATION

University of South Florida	Tampa, Florida
Master of Science - Computer Science	Aug 2022 – May 2024
Anurag Group of Institutions	India
Bachelor of Technology - Computer Science	Aug 20217 – July 2021

SKILLS

Core Skills: Data Analysis | Statistical Modeling | Time-series Forecasting | Data Visualization | Project Management | Research & Analysis | Communication & Presentation | Data Modeling

Programming & Tools: Python (Pandas, SciPy, NumPy, Scikit-learn) | SQL| Snowflake| Tableau | Git | Power BI (DAX, PowerQuery) | MS Azure | MS Office Suite (PowerPoint, Word,Access, Excel)| Jira

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Goldman Sachs Engineering Virtual Program

