

# ROHITH PANCHINENI

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## WORK EXPERIENCE

### Data Analyst (Research Assistant), University of South Florida

Tampa, Florida

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 15%.
- Developed interactive transportation data visualizations using Power BI and ArcGIS, conducting spatial analysis that contributed to a 15% decrease in accident rates and a 20% increase in economic development.
- Developed and implemented machine learning algorithms to predict transportation demand, resulting in a 15% improvement in forecast accuracy.

### Business Intelligence Analyst, Accenture Solutions Pvt Ltd

India

July 2021- August 2022

- Engineered and optimized ETL processes, leading to a 40% reduction in data errors and a 25% increase in operational efficiency in analyzing pharmacy claims data.
- Conducted SQL-based data discrepancy investigations (root cause analysis) on Oracle databases, achieving an 80% error reduction by implementing targeted corrections.
- Documented and standardized root cause analysis procedures in Microsoft Word, resulting in a 50% reduction in the time taken to conduct investigations.
- Developed real-time Tableau dashboards, reducing insurance claim processing time by 20%, and enhanced KPI tracking efficiency, resulting in a 40% reduction in manual workload.
- Automated auditing process through ETL jobs, Python, and shell scripts, reducing audit report generation time from 8 hours to 1 hour.
- Leveraged Excel's features such as pivot tables, VLOOKUP, data validation, and conditional formatting to extract actionable insights and visually communicate complex data findings to business stakeholders.
- Skilled in OLAP concepts, including multidimensional data modeling, cube design, and query optimization, enabling rapid and interactive analysis of extensive datasets for business intelligence and decision-making.

### Data Analyst Intern, Cognizant Technology Solutions

India

Feb 2021 – July 2021

- Streamlined data processing by implementing automated ETL pipelines in Azure Data Factory, resulting in a 50% reduction in data loading time and improving overall data transfer efficiency.
- Automated data quality checks and cleaning routines, decreasing data inconsistencies by 30% and improving overall accuracy by 25%.
- Utilized Power BI to create dynamic and visually appealing dashboards, providing actionable insights and facilitating data-driven decision-making processes.

## 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 2017 – 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- vlookups, pivot tables), Jira

## PROJECT EXPERIENCE

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Accenture Solutions Pvt. Ltd. (Client: Kaiser Permanente)

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

India

- Managed healthcare claims data, overseeing ETL pipelines developed using Informatica.
- Conducted 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.

Personal

India

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

- Conducted data preprocessing and cleaning to ensure accurate and high-quality data for analysis.
- Designed a regression model using three machine learning algorithms to forecast verified COVID-19 cases globally for the upcoming ten days, resulting in a low RMSE of 100 and a high R2 score of 0.95, indicating a good fit between the model and the data.

Personal

Tampa, Florida

*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.
- Developed 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.

## CERTIFICATIONS

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