

# AKHIL KAUNDINYA METLAKUNTA

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## SUMMARY

A passionate Data Analyst with expertise in deriving insightful data-driven solutions and designing scalable data pipelines. A detail-oriented professional effectively demonstrating business intelligent solutions, showcasing strong problem-solving, analytical and communication skills. Adept at visualizing and exploring datasets by leveraging SQL, Python, Power BI, and Tableau.

## EDUCATION

**Master of Science in Information Systems** Sep 2021 – Dec 2023 | United States  
Northeastern University, Boston, MA  
*Relevant Courses: Design of Advance Database Architecture, Warehousing and Business Intelligence, Data Management and Database Design, Data Science Engineering Tools and Methods, Advance Data Science, Business Analytics, Agile Methodology, Product Management*

**Bachelor of Engineering in Mechanical Engineering** Aug 2016 – Nov 2020 | India  
Chaitanya Bharati Institute of Technology

## PROFESSIONAL EXPERIENCE

**Data Analyst** Mar 2024 – present | United States  
Abecedarian LLC

- Lead a project to determine student enrollment across all US universities which assisted in development of a customized job portal
- Developed enrollment data model, ETL using python scripts and pipelines, thereby improving database transactions by 30%
- Increased data quality by 20% by implementing self-defined data profiling and data pre-processing methodologies
- Forecasted enrollment trends across universities by utilizing Machine Learning models in Python, achieving an 85% accuracy rate
- Developed interactive PowerBI dashboards, empowering stakeholders with insightful visualizations for informed decision-making

**Data Processing Specialist** Aug 2022 – Jan 2023 | United States  
RaySecur, Inc

- Spearheaded acquisition, modeling, and analysis of terahertz data for data-driven computations and Machine Learning systems
- Implemented statistical models and predictive data analytical techniques on terahertz data, enhance training data, thereby achieving a 35% increase in accuracy for overall model performance
- Engineered and optimized scalable data pipelines, facilitating efficient data extraction, data transformation, and loading of diverse data sources into cloud, resulting in a 40% reduction in processing time
- Designed Threat Intelligence and Incident Response Dashboards to analyze large-scale data, refine ML models, and monitor KPIs
- Collaborated with cross-functional teams, delivering tailored data-driven solutions and ensuring seamless execution

**Data Analyst** Jan 2021 – Aug 2021 | India  
National Informatics Centre

- Ensured data accuracy and integrity for more than 1.2 billion records through comprehensive data cleaning and preprocessing
- Performed state-wise descriptive analysis of drawn and non-drawn cards, highest and lowest distribution, and consumption rates
- Implemented SQL queries, stored procedures, and views for seamless end to end data extraction, transformation, and reporting
- Leveraged Python to perform predictive analysis and forecasting food grain allotments for future needs and sustainable innovation
- Tracked G2G, G2C, and C2C requirements by generating insightful and innovative data visualizations and reports using PowerBI

**Associate Marketing Analyst** Sep 2020 – Jan 2021 | India  
BYJU's

- Analyzed market trends, business strategies, and ad-hoc requests, creating reports to drive process improvement metrics
- Employed SQL and MS Excel to analyze and enhance data quality by 80%, driving actionable insights and elevating team goals
- Identified growth opportunities, scope, problems, recommended plans, and collaborated with partners, yielding a 75% sales boost

## PROJECTS

**New York City Motor Vehicle Collision** Apr 2023 – May 2023

- Extracted 92 million collision data points from diverse sources, performed data profiling and data pre-processing
- Implemented star schema dimensional data model to enhance query performance for qualitative and quantitative data analysis
- Transformed and loaded the processed data into the dimensions and fact table enabling comprehensive analysis and efficient querying
- Developed interactive dashboards to enhance NYC traffic safety for end users by identifying KPIs

**Iowa Liquor Sales** Mar 2023 – May 2023

- Reduced data processing time by 25% through comprehensive data profiling on 80 million records using Alteryx, Talend, and SQL
- Streamlined operations by implementing a responsive dimensional model using ER/Studio, enhancing operational efficiency by 35%
- Integrated data from diverse sources into dimensional and fact tables using Talend, facilitating comprehensive data analysis
- Provided actionable insights for strategic decision-making by leveraging PowerBI and Tableau to visualize and analyze sales trends

## SKILLS

<b>Programming /Query Language</b> Python, SQL (MySQL, PostgreSQL, MSSQL, SSMS, oracle), R (RStudio)	<b>Data Modelling and Integration</b> ER / Studio, Alteryx Designer (Profiling, ETL), Talend Studio (SCDs, ETL), DBever, SSIS
<b>Data Visualization Tools</b> MS Power BI (DAX, Power Query, Measures, Transformations, M code), Tableau, Looker	<b>Machine Learning / Data Analysis</b> Numpy, Pandas, Matplotlib, Seaborn, TensorFlow, Keras, OpenCV, Scipy, Scikit-learn, PyTorch
<b>Microsoft Office Suite</b> Word, Advanced Excel (Lookup, Pivot table, VBA), PowerPoint	<b>Other software/Tools</b> Git, AWS (S3, EC2), VS Code, GCP(BigQuery), Azure, Jira, Visio

## CERTIFICATES

**Power BI Data Analyst Associate:**  Microsoft Certified: Power BI Data Analyst Associate- PL-300