

AKHIL KAUNDINYA METLAKUNTA

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EDUCATION

Northeastern University, Boston, MA

Sep 2021- Dec 2023

Master of Science in Information Systems

Relevant Courses: Design of Advance Data Architecture, warehousing and Business Intelligence, Data Management and Database Design, Data Science Engineering Tools and Methods, Advances in Data Science Architecture, Business Analysis, Agile, Project Management

Chaitanya Bharati Institute of Technology, India

Aug 2016-Nov 2020

Bachelor of Engineering in Mechanical Engineering

Relevant Courses: - Object Oriented Programming, CAD/CAM, Microcontroller Applications, Fluid and Machine Dynamics

TECHNICAL SKILLS

Programming/Query Language:

SQL (MySQL, PostgreSQL, MsSQL), R(RStudio), Python

Data Modelling and Integration Tools:

ER/Studio, Alteryx Designer (Profiling, ETL), Talend Studio (SCDs, ETL), DBeaver, SSIS

Data Visualization Tools:

Power BI (DAX, Power Query, Measures, Transformations, M code), Tableau, Visio

Microsoft Office Suite:

Word, Advanced Excel (Lookup, Pivot), PowerPoint, Access

Other software/Tools:

Git, AWS, VS Code, Alation, Azure, Jira, SSMS

WORK EXPERIENCE

RaySecur, Inc, Westwood, MA

Aug 2022-Jan 2023

Data Processing Specialist Co-op

- Spearheaded the acquisition, modeling, and analysis of terahertz images, videos, and metadata, contributing to the development and validation of data-driven computational and machine learning systems
- Executed statistical and predictive data analytic techniques on terahertz data, enhancing insights for the improvement of training data and achieving a 35% increase in accuracy for predictive models
- Engineered and optimized scalable data pipelines, facilitating efficient extraction, transformation, and loading of diverse data sources, resulting in a 40% reduction in processing time
- Designed Threat Intelligence Dashboard and Incident Response Dashboard, analyzing and tracking large-scale data to provide valuable insights for refining ML models and tracking key performance indicators
- Collaborated with clients to understand their data-related challenges and objectives, crafting tailored data-driven solutions

National Informatics Centre, Hyderabad, India

Jan 2021-Aug 2021

Data Analyst

- Ensured data accuracy and integrity for more than 1.2 billion records through comprehensive data cleaning, preprocessing, and validation using SQL and Python.
- Performed state-wise descriptive analysis of drawn and non-drawn cards, highest and lowest distribution, and consumption rates
- Diagnosed and scrutinized authentication failures related to Aadhar card, employing diagnostic analysis techniques
- Implemented and optimized SQL queries, stored procedures, and views for seamless data extraction, transformation, and reporting
- Utilized Python to perform predictive analysis and forecast food grain allotments for future needs
- Tracked G2G, G2C, and C2C requirements by generating insightful data reports and visualizations using Power BI

BYJU's, Hyderabad, India

Sep 2020-Jan 2021

Associate Marketing Analyst

- Monitored, reported and analyzed business performance and market statistics, addressing ad-hoc analytic requests, and creating/automating regular reports
- Utilized SQL and Excel to Analyze and enhance data quality, providing actionable insights and driving team goals
- Incorporated Alation into data cleansing, storage and documentation processes, ensuring adherence to best data governance practices
- Identified growth opportunities and issues, recommended plans, and collaborated with partners, yielding a 75% sales boost

ACADEMIC PROJECTS

New York City Motor Vehicle Collision (Skills/Tools: SQL, Alteryx, Talend, PowerBi, Python, ER/Studio, Tableau, ETL)

Apr 2023-May 2023

- Extracted 92 million collision data points from diverse sources using SQL and Alteryx
- Engineered ER/Studio dimensional model, performed data profiling, data modeling, and integrated workflows with Alteryx and Talend. Developed interactive Tableau and Power BI dashboards to enhance NYC traffic safety

Iowa Liquor Sales (Skills/Tools: SQL, Alteryx, Talend, PowerBi, Python, Tableau, ER/studio)

Mar 2023-Apr 2023

- Conducted comprehensive data profiling and data reporting on 80 million records using Alteryx to gain insights into Iowa liquor sales data, optimizing decision-making processes.
- Enhanced Iowa liquor sales operations by implementing a responsive dimensional model with ER/Studio and Alteryx, resulting in a 25% reduction in data processing time.

Cluster Analysis on Retail Dataset (Skills/Tools: Python, Jupyter Notebook, Numpy, Pandas, Seaborn,Scipy, Tensorflow)

Jan 2023-Feb 2023

- Developed K Means clustering algorithm in Python using Jupyter Notebook, NumPy, Pandas, Matplotlib, and Seaborn.
- Conducted data preprocessing and applied K Means clustering to categorize data based on shopping frequency and total spent.
- Evaluated algorithm performance using Elbow and Silhouette methods, referencing diverse resources for guidance