ARUN MATHEW

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EDUCATION

Yeshiva University, Katz School of Science and Health   New York, NY
Master of Science in Data Analytics and Visualization   *May 2025*
Relevant coursework: Python Programming, Structured Data Management, Data visualization and Story Telling

Saintgits College of Engineering   *Kerala, IND*
Bachelor of Technology in Computer Science   *July 2020*
Relevant coursework: C, Java, Python, Data Structures

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, JavaScript, TypeScript
Frameworks: Tableau, Power BI, MS Excel
Libraries: Numpy, Scikit-Learn, Pandas, Matplotlib, Seaborn, TensorFlow, SciPy
Databases: PL/SQL, MySQL
Web Designing: HTML, CSS, API
Domain Expertise: Git, GitHub, Jira, AWS
Certification: AWS Cloud Practitioner *(April 2024- April 2027)*

EXPERIENCE

Software Developer - *Aspire NXT Pvt. Ltd.*   *November 2020- June 2023*
- Developed Web Applications using Angular framework using JavaScript/TypeScript, HTML, CSS that satisfies the client requirement.
- Collaborated with other software developers on design, development and testing of programs.
- Designed and coded new software or modified existing software to add new features

PROJECTS

SQL Project: Disease Model
   Tools used: sql, postgresSQL
- A master's **SQL** project to create a robust **PostgreSQL** disease database.
- Designed a detailed Entity-Relationship model, ensuring clear relationships and cardinalities.
- Implemented the database with a focus on referential integrity.
- Expanded the project into a disease Data Warehouse based on Kimball's principles.
- Crafted ETL processes for seamless data transfer between **OLTP and Data Warehouse**.

Tableau Project: New York Property Rolling Sales
   Tools used: Python, Tableau
- A Tableau Project to analyse the property market status from the previous year and recommend valuable insights to improve future trends and performance.
- Utilized Python for cleaning and formatting dataset.
- Created Dashboard containing analysis of various factors such as economic conditions, regulations, shifts in consumer preferences which gives insights for the real estate agents

Python Project: Exploring the world of books and reviews
   Tools used: Python, Pandas, Matplotlib, Seaborn, Scikit-learn
- Analysed a dataset of books and reviews.
- Conducted thorough exploratory data analysis, including data cleaning, pre-processing, and feature engineering.
- Got insights and made conclusions regarding quality, correlations and dynamics

R Project: Analysing Crime Rate in LA from 2020
   Tools used: R, ggplot, Cubic Regression, Loess Regression
- Project to analyse crime rate of LA over time and derive useful insights from it.
- Analysed a dataset of crimes of LA from 2020.
- Conducted thorough exploratory data analysis, including data cleaning, pre-processing, and feature engineering.
- Made conclusions regarding increasing crime rates and made and attempt to predict future rate of crimes over time.

(View my other projects on my [Git](#) and my personal [Portfolio](#))