

# Ashish K. Mathew

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Data Analysis | Data Mining | Data Warehousing | Regression Analysis | Data integration | Data Mapping | MapReduce | Databases | SAS | Machine Learning | Statistics | Tableau | OBIEE | Oracle | UNIX | Stata | MATLAB | Strategic Planning

## Data Scientist / AWS Data Engineer

### Summary:

- Highly skilled and detailed oriented Post graduate in big data engineering student with a keen interest in Data Scientist, AWS Data Engineer, Data Analyst, BI Developer, and machine learning.
- Committed to helping companies advance by helping them to develop strategic plans based on predictive modeling and findings.
- Innovative Programmer and Internet Entrepreneur striving to make the world a more unified and connected place.
- Analyzed data using R, Hadoop, and Python, and queried data using structured and unstructured databases.
- Programming expertise in Python and strong in Database SQL as well as Power BI and SQL Server Management Studio.
- Worked and extracted data from various database sources like Oracle, and SQL Server.
- Drive data-informed performance by analyzing complex datasets and converting them into actionable insights.
- Leveraged technical background, analytical mind, and passion for identifying data trends and patterns to continue solving complex problems as a Data Solution Expert.

### Education:

- **Purdue University, West Lafayette, IN:** Post-Graduate in Cloud Big Data Engineering
- **The College of Saint Rose, Albany, NY:** Master of Science in Data Science | **Minor:** Statistics
- **Kurukshetra University, India:** Bachelor of Science in Tech Computer Science Engineering | **Minor:** Mathematics

### Certifications:

- **AWS:** Data Analytics Specialty, Data Engineering with Microsoft Azure (Ongoing)
- **Google:** Professional Machine Learning Engineer (2022)
- **Microsoft:** Analyzing and Visualizing Data with Microsoft Power BI (2022) | NIELIT, Certified Java Developer (2017)

### Technical Skills:

- **Programming Languages:** Java, Python (Pandas, Matplotlib, Seaborn, Scikit-learn, XGBoost, Beautiful Soup, TensorFlow, NumPy), Apache Maven, Gradle, Ant, Git, SVN (Subversion), Spring Framework (including Spring Boot, Spring MVC, Spring Data, Spring Security), Hibernate, Apache Struts, Java Server Faces (JSF), Java Server Pages (JSP), Java Server Pages Standard Tag Library (JSTL), Apache Tomcat, Apache HTTP Server, JDBC (Java Database Connectivity), JPA (Java Persistence API), Junit, Java API for RESTful, Web Services (JAX-RS).
- **Cloud:** Azure, AWS, GCP, Snowflake, RedShift, Big Query | **Big Data:** Apache Spark & Airflow, Scala, Hive, MapReduce, HBase, Kafka
- **Statistics:** Hypothesis Testing, Correlation, Co-Variance, Regression Analysis, A/B Testing, ANOVA
- **Analytic Tools:** Power BI, Tableau, KNIME, R, SPSS, SAS JMP, Matplotlib, DAX, M Code, Power Query, Power Pivot, MATLAB, MySQL
- **Machine Learning:** Supervised Learning (Regression, Decision Tree, Random Forest, Gradient Boosting, Support Vector Machine, KNN, Bayesian, Neural Network) & Unsupervised Learning (Clustering, PCA), Time Series
- **Proficiencies:** Workflow Development, Process Improvement, Strong Communicator, Quality Analysis, Statistical Analysis, Quick Learner, Cross-Functional Collaboration, Project Management, Strategically Prioritizes Work, Client Relations, Customer Experience
- **Interpersonal Skills:** Strong Internet Research, Excellent Verbal, Written, and Quantitative Skills, Time Management and Prioritization Abilities, Effective Presentation, Team Player, Leadership and Negotiation Skills

## Work Experience

### Data Consultant | DR McNATTY, San Diego, CA

Jan 2023 – Present

- Successfully lead intricate data and tech projects, focusing on data management, reporting, and analytics for strategic clients.
- Skillfully executed data migration to Salesforce, ensuring data integrity, seamless transfer, and efficient integration.
- Meticulously map data fields for smooth Salesforce integration and improved data accessibility.
- Collaborated closely with stakeholders to analyze business requirements and deliver effective data management solutions.
- Empowered Construction Insights through Python-powered data analysis for construction project performance and efficiency.
- Optimized Data Infrastructure by harnessing Azure technologies to enhance data storage and processing capabilities.

### AWS Data Science Consultant | Tia AI Inc., Boston, MA

March 2022 – Present

- Lead data optimization initiatives for a tech start-up, encompassing ETL data cleansing, intricate stock price data analysis, and the development of predictive modeling for the upcoming SaaS product launch.
- Established data workflows as a founding technical team member including data warehouse, governance, and integrations.
- Proficiently developed and managed high-performance, Java-based trading applications with a strong emphasis on optimizing trade execution speeds, ensuring low-latency execution, reliable market connectivity, and effective handling of concurrent market data processing, order routing, and risk management using multi-threading techniques.

- Optimized development quality by improving change processes, functional specifications, user experiences, sprint planning, standups, retrospectives, and backlog management as a technical partner on cross-functional strategy teams.
- Collaborated with traders, analysts, and risk managers to gather requirements and deliver custom financial software solutions that optimize trading strategies and improve overall performance.

#### **Data Analyst | Capio Group, Sacramento, CA**

**May 2021 – Dec 2022**

- Led intricate data and technology initiatives for strategic clients, encompassing data management, reporting, in-depth analysis, and dashboard development, in support of multimillion-dollar client projects.
- Conducted complete ETL workflows, converting raw data into actionable insights, by orchestrating the flow from the master database to SQL server, and architecting a data warehouse framework to facilitate research, analytics, and reporting for state-wide land acquisitions.
- Enhanced data warehouse integrity by conducting proactive data reviews, detecting inconsistencies, and executing data cleansing operations to achieve a significant improvement of over 90% in data accuracy.
- Managed and updated 4 interactive, solution-driven dashboards, incorporating DAX functions, addressing business requirements, validating data accuracy, identifying gaps, and ensuring user-friendly access to aligned data.
- Designed two essential data visualizations crucial for business operations by translating business requirements into relevant schema and data models, enabling improved visibility of business bottlenecks.

#### **Immigration Research Analyst | Immigration Department, Albany, NY**

**March 2020 - May 2021**

- Analyzed data from 5 government sources to identify trends in immigration language access needs.
- Led the end-to-end development of a centralized portal for agency requests and form submission, successfully implementing and adopting Power Automate to automate request allocation and department-wide accessibility.
- Efficiently managed comprehensive end-to-end data workflows, encompassing data quality validations, ad-hoc reporting, dashboard development, process automation, data cleansing, migration, and integration, in support of a rapidly expanding Master Database.
- Employed the Chi-Square Test to investigate the potential correlation between language proficiency (e.g., English-speaking ability) and immigration status or country of origin among immigrants in New York State, enabling the identification of language needs variations within different immigrant groups.
- Utilized ANOVA to compare language access needs among immigrants from different countries of origin or educational backgrounds in New York State, facilitating targeted language services based on specific immigrant community needs.

#### **Graduate Assistant | College of Saint Rose, Albany, NY**

**Jan 2020 - June 2021**

- Managed the department database, overseeing data quality reviews, automating data extraction, collecting qualitative data, creating reports, and presenting key findings using SQL and other relevant tools.
- Utilized SQL to compile and validate data from relational databases, meeting business requirements and conducting statistical and geographical analysis to study the distribution and concentration of Key Performance Indicators (KPIs).

#### **Senior Capstone Project | College of Saint Rose, Albany, NY**

**Aug 2021 – Dec 2021**

- Built and presented data-informed recommendations aligned with identified gaps and opportunities.
- Achieved superior quality in student retention and persistence predictive analysis by developing and implementing a comprehensive approach encompassing factor identification, qualitative interviews, data analysis, machine learning techniques, and defining gaps and trends, surpassing previous research standards.

#### **Consultant | Tech Valley, India**

**April 2017 – Nov 2019**

- Collaborated with cross-functional teams to analyze business requirements and propose effective solutions using Java technologies.
- Delivered projects within defined timelines and budgets, addressing technical issues to ensure customer satisfaction.
- Collaborated with client's team to gather requirements, conducted user acceptance testing, and provided post-implementation support.
- Efficiently constructed and managed secure data warehouses focused on healthcare trends and insights, ensuring the smooth migration of data from various sources to a secure AWS server.
- Created a resilient data pipeline by employing SQL and AWS 'big data' stack technologies, including Data Pipelines, Kinesis Firehose, and AWS Glue, to facilitate efficient data extraction, transformation, and loading from diverse sources.
- Delivered comprehensive technical training on data utilization best practices and data processes to enhance client adoption and facilitate smooth project transitions.