

Katyayani Jandhyala

Data Analyst

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SUMMARY

- Experienced Data Analyst with AWS Cloud certification and 5 years of experience in conducting Exploratory Data Analysis (EDA), Extract-Transform-Load (ETL) processes, Data Manipulation, Retrieval, Wrangling, Modeling, Visualization, Testing, and Automation, with acquired technical, presentational and communication skills.
- Hands-on experience with Big Data tools like Hive, Hadoop and PySpark.
- Proficient in creating insightful visualization dashboards with Tableau and Power BI for non-technical stakeholders.
- Implemented complex SQL queries, WINDOW and CTEs, procedures and triggers on SQL and NoSQL databases.
- Adept at applying A/B testing, statistical and predictive modeling concepts to solve complex business problems
- Interaction with cross-functional teams, Business Analysts, Data Scientists, SMEs, and other Data Architects to understand Business needs, design and functionality.

SKILLS

Programming Languages:	Python, R, SQL, SAS, Shell Scripting
Packages:	NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, TensorFlow, Keras, PyTorch
Databases:	SQL (Oracle, MySQL, PostgreSQL, GCP BigQuery), NoSQL (MongoDB)
Cloud Technologies and Visualization Tools	AWS (EC2, RDS, CDK, Redshift, Lambda, S3, IAM, Glue), GCP, Microsoft Azure Data Factory, Azure Databricks, Snowflake, Terraform, Microsoft Excel, Microsoft Power BI, Tableau, Looker, GitHub, MATLAB, Alteryx
Statistics:	Hypothesis Testing, A/B Testing
Machine Learning Algorithms:	Supervised and Unsupervised Learning techniques - Linear Regression, Logistic Regression, Multivariate Regression, Decision Trees, Classification, SVM, Random Forests, Naive Bayes, KNN, Large Language Models, Time-series
Big Data Framework:	Apache (Spark, Kafka, Hadoop, Hive, Airflow, MLFlow)
Methodologies:	Agile, Waterfall, Scrum

CERTIFICATIONS

AWS Certified Cloud Practitioner | Tableau Certification | Data Science Certification | KNIME L1-Certification

EXPERIENCE

Data Analyst, United HealthGroup, USA

Jul 2023 - Present

- Developed predictive models to forecast disease onset with **28%** increased accuracy, by integrating risk factors utilizing Python's **SciKit-Learn** and **TensorFlow**.
- Improved healthcare quality by **24%** by optimizing EHR data with **Apache Spark** and **HL7 FHIR** standards.
- Implemented cost reduction strategies saving **\$1.9M** annually, by analyzing financial data with **Hadoop**.
- Conducted epidemiological studies using **SPSS** and **SAS** to identify disease trends with a **95%** confidence level.
- Developed complex **SQL** queries, stored procedures and functions to support data processing and analysis, ensuring data quality and integrity.

Data Analyst, Trigyn Technologies, India

Sep 2021 - Jul 2022

- Elevated sales by **19%** during promotional periods by using **A/B testing** to identify impactful marketing strategies, analyzed with Google Analytics.
- Enhanced cross-sell opportunities using **NLP-based** feedback analysis, streamlining **CRM integration** for richer customer insights.
- Deployed **R Shiny** dashboards for retail inventory management, reducing stockouts by **25%** and improving inventory turnover by **20%**.

- Designed **NoSQL** database for high-velocity writes and scalability, consolidating **10+** data sources, improving performance efficiency and response time.
- Implemented **ETL** processes using tools such as **SSIS** and **Talend Open Studio** to extract transform and load data into databases, providing technical solutions to business stakeholders.

Senior Data Analyst (Retail and Supply Chain), Ganit Inc., India

Mar 2020 - Aug 2021

- Boosted customer engagement by **33%**, by deploying tailored product recommendations, leveraging **Logistic Regression and Decision Trees** by analyzing user purchase patterns.
- Established a data pipeline for ingesting click stream into **BigQuery**, and **PostgreSQL**, quickly scaling from **50 to 100K** clicks per day.
- Achieved a 27% increase in operational efficiency and a reduction in delivery time by spearheading an end-to-end supply chain project using **SQL, Spark, GCP**
- Executed a **Jenkins**-based **CI/CD** pipeline integrating **Kubernetes** and **Docker** to achieve a 40% reduction in deployment time.

Data Analyst, Boston Consulting Group, India

Jul 2019 - Feb 2020

- Orchestrated large-scale health journal data transformation with **1.6M** records, using **Python** and **SQL**, ensuring data quality consistency that resulted in 100% accurate insights for pivotal data-driven healthcare decisions.
- Designed a **petabyte-scale** analytics framework using cloud services and business intelligence dashboards, for operational improvements, cost savings, and resource allocation saving up to **\$2.3M**.
- Established a data pipeline for streamlined performance reporting across departments, consolidating resources and automating **Tableau** dashboards and databases, saving the company **700** man-hours annually.
- Employed price elasticity insights to calibrate **demand forecasting**, resulting in a **17%** boost in forecast accuracy and an uplift of **12% in revenue** from refined pricing strategies.

Data Analyst Intern, Nucleus Software, India

Jun 2018 - Apr 2019

- Developed optimized **Python scripts** to perform ETL and EDA on large datasets in AWS databases.
- Implemented **customer segmentation models** by analyzing user behaviour from transaction data.
- Completed day-to-day deliverables and **ad hoc data reports** to support data-driven business requirements
- Deployed **MS SQL Server** platform to store, transform, and query data for data analyzing and reporting.

EDUCATION

University of Illinois, Urbana-Champaign

May 2023

Master of Science, Business Analytics

International Institute of Information Technology Bangalore

April 2021

Postgraduate Diploma, Data Science with Specialization in Deep Learning

VIT University

May 2019

Bachelor of Technology, Computer Science and Engineering