

EDUCATION

Arizona State University, Tempe, AZ	May 2025
Master of Science, Information Technology	3.96 GPA
Relevant Coursework: Analyzing Big Data, Database management Systems, Data Visualization, Natural Language Processing	
Rajiv Gandhi Proudyogiki Vishwavidyalaya, India	Aug 2017 – Jun 2021
Bachelor of Technology, Computer Science and Engineering	3.70 GPA

TECHNICAL SKILLS

- Languages:** Python (NumPy, Pandas, Scikit-learn, Plotly, Matplotlib, Seaborn, SciPy, NLTK), JavaScript, **SQL**
- Data Science and Analytics:** Machine Learning (Regression, Decision Trees, Clustering), Predictive Modeling, **Time Series Analysis**, Data Wrangling, Statistical Analysis, Data Preprocessing
- Visualization/Big Data Tools:** **Tableau**, Power BI, Postgres, **Snowflake**, **ETL Pipelines**, AWS, Git, JIRA, Databricks
- Certifications:** Tableau for Data Science – Udemy, [Skillsoft Badges](#) (Release & Sprint Planning, Agile Development – Scrum)

PROFESSIONAL EXPERIENCE

Application Development Analyst	Dec 2022 – Jul 2023
Accenture	Pune, India
<ul style="list-style-type: none">Developed TensorFlow-based machine learning models to predict user errors, enhancing prediction accuracy by 15%.Designed and implemented ETL pipelines using Python, SQL, and Snowflake to automate data extraction, transformation, and loading for business dashboards in Tableau, boosting dashboard performance by 50%.Engineered scalable ETL workflows by integrating AWS services (Lambda, S3, RDS) with Snowflake, reducing overall data ingestion and processing time by 40%.Applied clustering and regression analysis to inform business decisions and forecast trends, driving strategic insights.Applied statistical time-series techniques (ARIMA, Exponential Smoothing) for data-driven financial insights.Implemented optimization algorithms for scheduling and resource allocation, resulting in a 20% reduction in processing time.Utilized Python to develop algorithms that enhanced scalability of critical backend functions, boosting system performance by 25%.	

Application Development Associate	Oct 2021 – Dec 2022
Accenture	Pune, India
<ul style="list-style-type: none">Developed Python (Pandas, NumPy) scripts to clean and process raw datasets from SQL databases, enabling faster data preparation for predictive modeling and analysis.Automated the collection of data from over 150 sources, streamlining workflows and reducing manual efforts by 30%.Applied regression techniques to identify key trends in operational data, improving forecasting accuracy by 10% and supporting data-driven decision-making for clients.Diagnosed and resolved data inconsistencies in complex datasets through effective debugging of Python scripts, reducing bug resolution time by 14%.Supported data visualization efforts using Tableau to create interactive dashboards for stakeholders, enhancing the accessibility of business insights and reducing report turnaround by 25%.	

PROJECT WORK

Time-Series Gait Analysis for Early Intervention in Senior Living
<ul style="list-style-type: none">Developed Python-based pipelines to analyze large time-series datasets from room sensors, generating resident-level mobility features such as duration, distance travelled, and gait velocity.Integrated sensor-derived movement metrics with health-related indicators to enable multimodal analysis using correlation matrices, K-Means clustering, and regression modeling (linear and logistic).Achieved 84% classification accuracy in predicting mobility risk levels using threshold-tuned logistic regression, to address class imbalance challenges across a limited sample size.

Senior Living Facility Nurse Call Response Time Analytics
<ul style="list-style-type: none">Analyzed pendant alarm response times for a senior living facility to evaluate care quality, aiming to identify delays in caregiver responsiveness and improve overall resident safety.Characterized call density and 80th percentile response time by hour of day and synthesized a weighted average response time that accurately depicts daily care staff performance.Developed interactive visualizations highlighting peak response time hours, resulting in recommendations for optimized shift structure and staffing levels to improve care and to reduce labor cost.