

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, 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 and SQL, automating data extraction, transformation, and loading into Tableau, boosting dashboard performance by 50%Built ETL pipelines using Python and SQL, leveraging AWS (Lambda, S3, RDS) to automate data workflows, reducing processing time by 40%Applied clustering and regression analysis to inform business decisions and forecast trends, driving strategic insightsApplied statistical time-series techniques (ARIMA, Exponential Smoothing) for data-driven financial insightsImplemented optimization algorithms for scheduling and resource allocation, resulting in a 20% reduction in processing timeUtilized 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 analysisAutomated 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 clientsDiagnosed 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

Frailty Prediction Model
<ul style="list-style-type: none">Developed Python-based code to process and summarize over 150K time-series records from room sensors, generating patient-level daily features like duration, distance, and velocity percentiles (P50–P95), aimed at predicting early frailty detectionIntegrated sensor data with clinical frailty metrics (Frailty Phenotype Score, CGA_FI), enabling multimodal analysis using Pandas, NumPy, and Scikit-learn for correlation, K-Means clustering, and regression modeling (OLS & logistic)Achieved 84% classification accuracy for frailty phenotype prediction using logistic regression with precision-recall threshold tuning, despite imbalanced clinical labels and limited dataset sizeEngineered custom mobility indicators and visualized patient segmentation using Seaborn and Matplotlib, enhancing interpretability with ROC, PR curves, and cluster scatter plots
Senior Living Facility Care Delay 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 safetyProcessed and transformed data in Excel, engineering custom metrics like 80th percentile and weighted averages, and categorized calls based on response thresholds (≤10min, >10min)Developed interactive visualizations highlighting peak delay hours (e.g., 6AM, 8PM), resulting in recommendations for staffing adjustments and improved care responsiveness