ASHISH SANJAY GHAYTADAK

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EDUCATION

Syracuse University, School of Information Studies   **Aug 2024 - May 2026**
Master of Science, Information Systems
- **Coursework:** Business Analytics, Applied Machine Learning, Database Administration & Management, Data Science, Visual Analytics & Dashboards, Cloud Computing, Scripting of Data Analysis

Shivaji University   **Jul 2017 - Aug 2021**
Bachelor of Engineering, Electrical Engineering

EXPERIENCE

Syracuse University, School of Information Studies   **Aug 2025 - Present**
Teaching Assistant
- Facilitate learning for 100+ undergraduate students in "Essence of Finance" course, delivering lectures on financial analysis, data-driven decision making, and quantitative modeling techniques
- Guide students through complex financial datasets and statistical analysis using Excel and Python, translating technical concepts into accessible explanations for diverse audiences
- Evaluate student projects involving financial forecasting, regression analysis, and business metrics interpretation, providing actionable feedback to improve analytical methodologies
- Collaborate with faculty to design curriculum materials and assessment frameworks, ensuring alignment with industry-standard financial analytics practices

PeopleLens   **Jul 2025 - Aug 2025**
Data Engineer Intern
- Architected and optimized scalable ETL/ELT data pipelines using Python, SQL, and AWS services, processing 500K+ records daily and reducing data processing time by 35% while ensuring 99.9% data quality and integrity
- Built automated metrics reporting and forecasting models using statistical analysis and machine learning techniques, improving pipeline visibility by 40% and accelerating deal velocity by 15%
- Crafted RESTful APIs and self-service reporting dashboards in Tableau with advanced calculations and parameters in an Agile/Scrum environment, delivering real-time sales analytics and business forecasts
- Streamlined Salesforce data integration workflows using Apex and SOQL queries, eliminating 50% of manual reporting tasks and improving data accessibility for 500+ end users
- Applied statistical modeling on multi-dimensional datasets to identify trends and optimize business processes, resulting in data-driven decision-making across cross-functional teams

Accenture   **Oct 2021 - Apr 2024**
Business Intelligence Analyst
- Designed end-to-end integrated BI reporting and forecasting solutions leveraging Tableau, SQL, Oracle, and data warehousing best practices, delivering actionable insights to 500+ stakeholders and reducing manual data processing efforts by 30%
- Constructed mathematical and statistical models for business forecasting and demand prediction, utilizing R for regression analysis, clustering, and time-series forecasting on complex multi-dimensional datasets
- Architected and maintained dimensional data models and star schema structures using SQL and Oracle databases to support analytical reporting, enabling efficient querying of 65,000+ customer records with sub-second response times
- Spearheaded large-scale data migration and ETL projects utilizing SOQL, Oracle, Python scripts, and validation frameworks to migrate 65,000+ customer accounts with 99% accuracy
- Established scalable, systematic processes for large-scale data analysis and model validation, implementing comprehensive data quality checks and reconciliation procedures that maintained 99% data integrity
- Collaborated with senior management and business stakeholders in Agile sprints to define KPIs, manage metrics reporting, and deploy self-service analytics solutions, improving decision-making speed by 30%

ACADEMIC PROJECTS

Predictive Analytics for Energy Demand Forecasting   **Aug 2024 - Dec 2024**
Syracuse University   *South Carolina*
- Developed and deployed machine learning regression models and time-series forecasting algorithms using Python (scikit-learn, statsmodels) and R to forecast electricity demand based on weather variables, achieving R^2 score of 0.89 and reducing prediction error (RMSE) by 20%
- Performed advanced statistical analysis including feature engineering, hypothesis testing, and time-series decomposition on 50K+ historical energy consumption records, leveraging mathematical modeling to identify temperature as the primary demand driver
- Constructed intelligent forecasting pipeline and interactive R Shiny web application with real-time data visualizations and predictive capabilities, enabling proactive capacity planning for South Carolina energy provider
- Transformed complex business problems into mathematical models, resulting in 10% increase in user engagement and improved resource allocation

Global Tourism Data Analytics & Visualization **Feb 2025 - Apr 2025**

Syracuse University

- Performed exploratory data analysis (EDA) and statistical modeling on 100K+ tourism records from UNWTO, IATA, and hotel booking datasets using Python (Pandas, NumPy, scikit-learn) and SQL, uncovering post-COVID travel pattern shifts
- Conducted clustering analysis and regression modeling on multi-dimensional datasets to identify revenue opportunities and forecast tourism recovery trends across 50+ countries
- Orchestrated and deployed dynamic interactive dashboards in Tableau featuring advanced visualizations (heatmaps, treemaps, trend analysis, geographic mapping) to track metrics and KPIs for hospitality industry strategic planning
- Conducted cohort analysis and statistical testing to identify key insights including 45% surge in online bookings, presenting data-driven forecasting recommendations to support business decision-making

TECHNICAL SKILLS

- **Programming & Scripting**: Python, Pandas, NumPy, scikit-learn, statsmodels, R (advanced), dplyr, ggplot2, tidyverse, SQL (advanced), Java, Apex
- **Statistical Analysis & Modeling**: Statistical Modeling, Forecasting, Time-Series Analysis, Regression Analysis (Linear, Logistic, Multi-variate), Clustering, Mathematical Modeling, Predictive Analytics, Hypothesis Testing, A/B Testing
- **Database & Data Warehousing**: SQL, MySQL, PostgreSQL, Oracle, Database Design, Data Modeling, Query Optimization, Star Schema, SOQL, SOSL
- **ETL & Data Integration**: ETL/ELT Pipelines, Oracle-based ETL, Data Migration, Large-scale Data Processing, API Development, REST/SOAP
- **Cloud & Big Data**: AWS (S3, EC2, Lambda, RDS), Azure, Cloud Data Storage, Big Data Processing
- **Business Intelligence & Visualization**: Tableau (Desktop, Server), Power BI, R Shiny, Advanced Excel, VLOOKUP, Pivot Tables, Power Query, Automated Reporting, Metrics Dashboards
- **Data Analysis Tools**: R, Python (scipy, statsmodels), Git, JIRA, Agile/Scrum
- **Additional**: Business Forecasting, KPI Development & Metrics Management, Data Governance, Data Quality Management, Dashboard Design, Stakeholder Communication, Technical Documentation