Tirth Shah

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EDUCATION

Texas A&M University	**Texas, USA**
Master of Science in Management Information Systems	GPA: 4.0/4.0	May 2026
Sardar Vallabhbhai Patel Institute of Technology	**Vasad, India**
Bachelor of Engineering (BE) in Computer Engineering	GPA: 3.95/4.0	Jul 2021

SKILLS & CERTIFICATIONS

Technical: Python, Big Data, Data Analytics & Visualization, ETL, Exploratory Data Analytics, Statistics, Data Modelling, Machine Learning
Tools: Microsoft Azure, Microsoft Excel (Slicers, Filters, Pivot Tables, VLOOKUP's, VB Macros, & What-If's), Jupyter, Tableau*, PowerBI*
Frameworks: Pandas, NumPy, Matplotlib, NLTK, TensorFlow, Keras, PyTorch, Scikit-learn, Seaborn
Databases: AWS EC2, Google Cloud SQL, MySQL, MariaDB
Certifications: Microsoft Certified- Azure Data Engineer Associate [Link], Azure Data Fundamentals [Link], Azure AI Fundamentals [Link], Azure Administrator Associate [Link], IBM Data Science [Link], Citizen Data Explorer [Link], Citizen Data Storyteller [Link]

WORK EXPERIENCE

Tata Consultancy Services Limited	**Gandhinagar, India**
Data Analyst	Jan 2023 – Aug 2024

- Converted legacy **SaS code** to transformative **Python Scripts**, decreasing processing time by 80% & cost by 50%
- Optimized existing reports to include **data visualization** for better impact using **Python**, improving customer satisfaction by 20%
- Standardized **raw data** into company-compliant frameworks using **NumPy** & **Pandas**, lowering data ingestion time by 40%
- Implemented edge cases and programmed **automation scripts** using **Excel macros** to reduce manual checks by 90%

Migration Analyst	Aug 2021 – Jan 2023

- Migrated On-Prem Architecture to **GCP**, implementing Data Fabric to achieve over 40% to 50% enhancement in hit ratio
- Performed complex redesigns and constructed **automation** jobs that simplified manual configuration by 30% to 40%
- Communicated and engaged with Tier-1 customers to **gather and deliver requirements**, increasing client satisfaction by 25%
- Compared pre-trained **ML** models for credit scoring, accurizing prediction by 15% through **statistical modeling** and **data analytics**

Alphaa AI	**Jamnagar, India**
Data Visualization Analyst Intern	Nov 2020 – Feb 2021

- Engineered **dashboards** for a U.S. superstore, elevating revenue by 20% to 40% using **forecasting** and **Monte-Carlo simulation**
- Augmented **sales & marketing** campaign over social media efficacy by 20% to 30%, using **NLP** and **Artificial Intelligence.**
- Created **sports analytics dashboard**, enhancing player efficiency by 15% and identifying critical weaknesses as per historical data

PROJECTS

Enterprise Inventory Data Management Tool *
- Developed and deployed an inventory management solution, using AWS and MariaDB to handle inventory tracking, order tracking, and historical price analysis. Implemented a role-based access control system, enabling administrators & users to execute CRUD operations. Enhanced data consistency and integrity by adding transaction-safe stored procedures and triggers for predefined events

Market Basket Analysis|[GitHub]|[Article]
- leveraged machine learning models to understand customer expenditure traits & patterns over different seasons and occasions. Incorporated association and linking for product paring and positioning which helped to grow the sales for any store by 20% to 30%

Data Visualization & Exploratory Data Analytics|[GitHub]|[Video]
- Crafted user-optimized dashboards for data-driven decision-making, focusing on sales optimization. Predicted product sales and strategically target a 20% revenue increase, demonstrating proficiency in translating complex data into actionable business decisions

LEADERSHIP, INVOLVEMENT & ACHIEVEMENTS

- **Python Skill Up Day**: Hosted a virtual learning day event to teach 200+ associates (TCS) about "Coding in Python – Corporate Version"
- **Community Services** (**70+ Hrs**): Volunteered in drives catering to Traffic Safety|Fitness|Blood Donation|Saving Electricity|Education
- **Chief Coordinator @VISION'19|18**: Organized an interdepartmental fest having a footfall of 2000+ participants. Managed a team of more than 100 students. Donated 90% of profit to nearby local schools and provided students with bags, notebooks, and stationery
- **Awards**: Awarded with TCS Special Initiative Award (x3) for exceptional performance, dedication, initiative and teamwork capabilities