Tirth Shah

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EDUCATION

Texas A&M University — Jul 2024 – May 2026
Master of Science in Management Information Systems | GPA: 4.0/4.0 — *Texas, USA*

Sardar Vallabhbhai Patel Institute of Technology — Jul 2017 – Jul 2021
Bachelor of Engineering (BE) in Computer Engineering | GPA: 3.95/4.0 — *Gujarat, India*

WORK EXPERIENCE

Tata Consultancy Services — Jan 2024 – Aug 2024
Data Engineer — Gujarat, India

- 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
- 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%

Tata Consultancy Services — Aug 2021 – Jan 2024
Migration Analyst — Gujarat, India

- 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
- Compared pre-trained **machine learning** models for credit scoring, accurizing prediction by 15% through **statistical modeling**

Alphaa AI — Nov 2020 – Feb 2021
Data Visualization Analyst Intern — Gujarat, India

- Engineered **dashboards** for a U.S. superstore, elevating revenue by 25% 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 and identifying critical weak points as per historical data

SKILLS

Technical: Python, AI, Big Data, Data Analytics & Visualization, ETL, EDA, Statistics, Data Modelling, ML, Cloud Computing, SQL
Tools: Microsoft Azure, Microsoft Excel (Slicers, Filters, Pivot Tables, VLOOKUP's, VB Macros, & What-If's), PowerBI, Apache Airflow, Azure Data Factory, Jupyter Notebook, Github, Informatica
Databases: AWS EC2, Google Cloud SQL & Bigquery, MySQL, MariaDB, MongoDB, PostgreSQL, Redis

PROJECTS

Enterprise Inventory Data Management Tool
- Developed inventory management solution, using AWS and MariaDB to handle ordering, tracking, & stored historical prices. Provided ability to perform transaction safe CRUD operations, triggers & stored procedure to enhanced data consistency & integrity

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

CERTIFICATION

AWS Certified Data Engineer-Associate [ETA-11/30], Microsoft Certified Azure Data Engineer Associate [DP-203], Microsoft Certified Azure Data Fundamentals [DP-900], Microsoft Certified Azure AI Fundamentals [AI-900], Microsoft Certified Azure Administrator Associate [AZ-104], IBM Data Science [Link], Citizen Data Explorer [Link], Citizen Data Storyteller [Link]

LEADERSHIP & ACHIEVEMENTS

- **Python Skill Up Day**: Hosted virtual learning event to teach 200+ associates (@TCS) about "Coding in Python – Corporate Version"
- **Community Services (70+ Hrs.)**: Volunteered in drives for 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, agility, initiative and teamwork capabilities