

Tirth Shah

(979) 635 2045 | tirth.shah@tamu.edu | [linkedin.com/in/tirth-chirayu-shah](https://www.linkedin.com/in/tirth-chirayu-shah) | tirthcshah.info

EDUCATION

Texas A&M University, College Station

Master of Science in Management Information Systems | GPA: 4.0/4.0

Aug 2024 – May 2021

Texas, USA

Sardar Vallabhbhai Patel Institute of Technology

Bachelor of Engineering (BE) in Computer Engineering | GPA: 3.95/4.0

Jul 2017 – Jul 2021

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
- Applied **statistical modeling** and **machine learning** techniques to analyze **customer data** and improve **business strategies**
- 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%
- Collaborated with **cross-functional teams** to translate **business requirements** into **technical specifications** for analytics projects
- 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 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 and identifying critical weak points as per historical data

SKILLS

Technical: Python, AI, Big Data, Data Analytics & Visualization, ETL, EDA, Statistics, Data Transform, ML, Cloud Computing, SQL
Tools: Cloud platform (AWS, GCP, Azure), Microsoft Excel (Slicers, Filters, Pivot Tables, VLOOKUP's, VB Macros, & What-If's), PowerBI, Apache Airflow, Azure Data Factory, Jupyter Notebook, GitHub, Informatica, Pyspark, ETL, Linux
Databases: AWS DynamoDB, Google Cloud SQL & Big query, MySQL, MariaDB, MongoDB, PostgreSQL, Redis, DynanoDB

PROJECTS

Enterprise Inventory Data Management Tool

- Developed inventory management solution, using AWS and MariaDB to handle ordering, tracking, & allows historical prices analysis. 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

COURSES & CERTIFICATION

ADBMS [ISTM-622], Engineering Data Analysis[ISEN-613], 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]

LEADERSHIP & ACHIEVEMENTS

- **Python Skill Up Day:** Hosted virtual learning day event to teach 200+ associates (TCS) about “Coding in Python – Corporate Version”
- **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
- **Community Services (70+ Hrs.):** Volunteered in drives catering to Traffic Safety|Fitness|Blood Donation|Saving Electricity|Education
- **Awards:** Awarded with TCS Special Initiative Award (x3) for exceptional performance, agility, initiative and teamwork capabilities