

# Tirth Shah

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## EDUCATION

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### Texas A&M University, College Station

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

Aug 2024 – May 2026

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

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### Tata Consultancy Services

Data Engineer

Jan 2024 – Aug 2024

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

Migration Analyst

Aug 2021 – Dec 2023

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**

### Alpha AI

Data Visualization Analyst Intern

Nov 2020 – Feb 2021

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

## PROJECTS

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- **CHAT-C.P.T.** | [[Demo](#)]: a generative AI solution utilizing RAG Architecture to simplify CPT applications and degree planning for students. Delivered personalized, 24/7 AI Chatbot with scalable & secure solutions, ensuring a seamless student experience
- **Market Basket Analysis** | [[Article](#)]: leveraged ML models to understand customer expenditure traits & patterns over different seasons and occasions. Incorporated association and linking for product paring and positioning to grow the sales by 20% to 30%
- **Inventory Management Tool**: Developed a solution using AWS and MariaDB to handle ordering, tracking, and enable historical price analysis. Provided ability to perform CRUD operations, triggers & stored procedure to enhanced data consistency & integrity
- **Data Visualization & Exploratory Data Analytics** | [[Video](#)]: Developed user-friendly dashboards to support data-driven decisions, predicting product sales and strategically targeting a 20% revenue increase by translating complex data into actionable insights

## SKILLS

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**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

## COURSES & CERTIFICATION

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ADBMS [ISTM-622], Engineering Data Analysis[ISEN-613], AWS Certified Data Engineer-Associate [ETA-12/30], Microsoft Certified Azure - Data Engineer Associate [DP-203], Data Fundamentals [DP-900], AI Fundamentals [AI-900], Administrator Associate [AZ-104]

## LEADERSHIP & ACHIEVEMENTS

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- **Recreational Sports Center @TAMU:** Recognized as Employee of the Month for Cricket and promoted to Site Manager
- **Indian Graduate Student Association:** Fostered a welcoming environment for international students at Texas A&M University by organizing 5+ cultural events for 500+ attendees, managing ticketing, logistics, strategic planning, and promotions
- **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