

Tirth Chirayu Shah

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EDUCATION

Texas A&M University, College Station, Texas, USA

Aug 2024 – May 2026

Master of Science(MS) in Management Information Systems

Sardar Vallabhbhai Patel Institute of Technology, GTU, India

Aug 2017 – July 2021

Bachelors of Engineering (BE) in Computer Engineering

([WES Certified](#)) GPA: 3.95/4.0

WORK EXPERIENCE

Python Developer @Tata Consultancy Services Limited, India

Jan'2024 – Aug'2024

- Successfully converted SaS Code used by the legacy server-based architecture to transformative Python Code used by the migrated cloud platform, reducing the processing time by **80%** & cost by **50%** ([Appreciated by Customer](#)).
- Maintained and updated existing data pipelines to ensure data integrity & authenticity using Jenkins & GitHub.
- Implemented data cleaning and preprocessing from raw Excel data to transfer into data frames for further analyses.
- Implemented edge-cases and programmed automation scripts and tools that have reduced manual checks by **90%**.

Migration Analyst @Tata Consultancy Services Limited, India

Aug'2021 – Jan'2024

- Migrated Server based legacy algorithms to cloud based architecture (Google Cloud Platform) and tested those on the [Data Fabric](#).
- Implemented redesigns and constructed automation jobs that reduced manual configuration by **30%**.
- Engaged with various Tier-1 customers such as Citibank, Discover Card, Capital One & more to gather and deliver the requirements.
- Conducting an efficiency analysis of pre-trained machine learning models for credit score generation and statistically comparing the results generated by the server-based system with those of the cloud migrated system.

Business Analyst Internship @Paul Mason Consulting Limited, India

Sept'2020 – Apr'2024

- Guided the Scrum Call and created tasks over Jira for the technical team to adhere to the sprint plans as per agile methodology.
- Effectively managed the project backlogs in the future sprints & organized sprint retrospectives.
- Produced and revamped existing documentation for better management and efficacy.

SKILLS

Technical: Agile, Scrum, SDLC, Big Data, Data Structures and Algorithms, Data Analytics & Visualization, ETL, Machine Learning, NLP.

Tools: GCP Console, GitHub, Atlassian JIRA & Confluence, MS Office Suite, PyCharm, Jupyter, R Studio, VS Code, Tableau, PowerBI.

Frameworks: Pandas, NumPy, Matplotlib, NLTK, TensorFlow, Keras, PyTorch, Scikit-learn, Seaborn, PySpark, Computer Vision.

Programming Languages: Python, Java, C++, C, JavaScript, HTML, CSS.

Databases: Google Cloud SQL, MySQL, PLSQL, PostgreSQL, SQL.

PROJECTS

- [Market Basket Analysis](#) – Leveraged machine learning models to understand customer expenditure traits & patterns ([Article](#)).
- [Data Visualization with Excel](#) – Goal was to improve/increase the sales for a local shop by 20% using the previous sales data ([Video](#)).
- [Exploratory Data Analysis with Python](#) – Analyzed different datasets (PlayStore Downloads|Pokemon|FiFa) to find different trends.
- [Bundle of Python Projects](#) – Solved real life manual workflows to automation scripts.
- [Machine Learning 101](#) – Using ML models like Linear Regression to make real life Music recommendation & Score Predictions.
- [Portfolio Building](#) – Coded a web-portfolio using HTML, CSS, JavaScript & different API's ([Article](#)).

LEADERSHIP & MANAGEMENT

Tata Consultancy Services, Gandhinagar, Gujarat

- **MASTIFAX** (Annual Client Function) - Hosted & Organized (2022 & 2023) – [received Client Appreciation](#).
- **Python Skill Up Day** (TCS) – Hosted a learning event to teach 200+ student about python language- [received National Certificate](#).
- **Community Services (70+ Hrs.)** – participated in drives about Traffic Safety | Fitness | Donation | Saving Electricity | Education.

Sardar Vallabhbhai Patel Institute of Technology (GTU), Vasad, Gujarat

- **Training & Placement Officer** – Trained more than 500 students in their respective fields of interest & help achieve desired jobs.
- **Discipline Secretary** (Student Central Committee) – organized anti-drug drives, blood donation camp, plantation drive.
- **Chief Coordinator @VISION'19|18** – Organized an interdepartmental fest having a footfall of 2000+ participants, while managing a team of 80+ students. [Donated 95% of the profit to the local schools providing them with bags, notebooks and stationaries.](#)

CERTIFICATION & ACHIEVEMENTS

Technical Certifications: Microsoft Azure [DP203](#) | [AZ104](#) | [DP900](#) | [AI900](#) | [AZ900](#), IBM Data Science, Citizen Data Scientist([@alphaa](#)).

Awards and Recognitions: Awarded with TCS Special Initiative Award (x3) for exceptional performance, dedication, and initiatives.