Tirth Chirayu Shah

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EDUCATION

Texas A&M University, College Station, Texas, USA   Aug 2024 – Jul 2026
Master of Science in Management Information Systems

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

WORK EXPERIENCE

Tata Consultancy Services Limited   **Gujarat, India**
Python Developer   Jan 2024 – Aug 2024
- Converted SaS Code operated by legacy server-based architecture to transformative Python Code used by the migrated cloud platform, decreasing processing time by **80%** & cost by **50%**.
- Maintained and updated existing data pipelines to ensure data integrity & authenticity by deploying them on Jenkins & GitHub.
- Executed 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 to cut down manual checks by **90%**.

Tata Consultancy Services Limited   **Gujarat, India**
Migration Analyst   Aug 2021 – Jan 2023
- Migrated Server-based legacy algorithms to cloud-based architecture (Google Cloud Platform) and tested those on the Data Fabric.
- Performed redesigns and constructed automation jobs that simplified manual configuration by **30%**.
- Communicated and engaged with various Tier-1 customers to gather and deliver requirements on time.
- Conducted an efficiency analysis of pre-trained machine learning models for credit score generation and statistically compared results generated by server-based systems with those of cloud-migrated systems.

Paul Mason Consulting Limited   **Gujarat, India**
Business Analyst Intern   Sept 2020 – Apr 2021
- Guided the Scrum Call and created tasks over Jira for technical team to adhere to sprint plans as per agile methodology.
- Resolved and organized project backlogs for future sprints & managed sprint retrospectives.
- Produced and revamped existing documentation for better management and efficacy.

PROJECTS

- **Market Basket Analysis –** leveraged machine learning models to understand customer expenditure traits & patterns (Article).
- **Data Visualization with Excel –** Increased sales for a local shop by 20% by analyzing previous year's sales data (Video).
- **Exploratory Data Analysis with Python –** analyzed different datasets (Play Store Downloads|Pokemon|FiFa) to find various trends.
- **Bundle of Python Projects** – solved real-life manual workflows to automation scripts.
- **Portfolio Building** – coded a web portfolio with help of HTML, CSS, JavaScript & different APIs (Article).

LEADERSHIP & INVOLVEMENT

Tata Consultancy Services Limited   **Gandhinagar, Gujarat**
- **Python Skill Up Day** (TCS) – Hosted a learning event to teach 200+ students about Python language.
- **Community Services (70+ Hrs.)** – Volunteered 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 respective fields of academic interest.
- **Discipline Secretary** (Student Central Committee) – arranged anti-drug drives, blood donation camps, and plantation drives.
- **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.

SKILLS & ACHIEVEMENTS

Technical: Agile, Scrum, SDLC, Big Data, Data Structures and Algorithms, Data Analytics & Visualization, ETL, Dot Net.
Tools: Microsoft Azure, 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.
Certifications: Microsoft Azure DP203 | AZ104 | DP900 | AI900 | AZ900, IBM Data Science, Citizen Data Scientist(@alphaa).
Awards: Awarded with TCS Special Initiative Award (x3) for exceptional performance, dedication, and initiatives.