SOMESH TAK
PYTHON DATA SCIENCE

CONTACT

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📍 Pimpri, Pune

EDUCATION

2003-2007
DR. B.A.T. UNIVERSITY, LONERE
B. Tech. Computer

2007-2009
ICFAI UNIVERSITY
MBA Finance

SKILLS

- Python
- SQL
- Power BI
- PySpark
- Big Data (Hadoop)
- Generative AI
- Machine Learning
- Analytics
- LLM
- Reporting
- Project Management
- Leadership
- Critical Thinking

PROFILE

Seasoned Python Data science professional , bringing 15 years of analytical expertise and a proven track record of data-driven decision-making looking for opportunity in analytics, reporting and data science

WORK EXPERIENCE

★ **Tata Consultancy Services, Pune** — APR 2015 - PRESENT

● **Client Name: Citi Bank** — JAN 2023 - PRESENT

Key Technologies: Python, PySpark, Bigdata (Hadoop)

- Leading team spread across geographies to deliver **data analysis** for Trade domain
- Worked on Data Quality Analytics Dashboard using **Generative AI**
- **Automated** Production Validation process to eliminate human error and reduced time from 2 hours to 2 mins per associate using Pandas, PySpark etc
- Created **dashboard** in Python to show recon of source to destination table ingestion data quality
- Created **user interface** using Streamlit and automated process of creating data catalog for ingested table using requests, pandas, json module
- Implemented and automated **data quality** checks for table ingestion at source side to avoid downstream impact
- Implemented and automated data quality checks (**recon reports**) for table ingestion at source side to avoid downstream impact
- Worked on **regulatory reporting** projects for multiple countries using **Bigdata**
- Successfully migrated reports from SAP BO to Python using Pandas, Pyspark OpenPyXL and PyFPDF
- Worked on model **data lineage** using json, pandas, requests module
- Captured data lineage of Java UI application using Python

● **Client Name: Rushomore Mortgage** — Jan'21 – Dec'22

Key Technologies: Python, MS SQL, Power BI

- Successfully lead short term fixed priced consulting project using just in time resource allocation
- Automated loan boarding process end to end using Python- Streamlit, Pandas, SQL Alchemy, NLTK etc. libraries and MS SQL
- Developed user interface (multipage offline web app) using Python-Streamlt to facilitate user with below operations:
  - Database operations on SQL server like table creation, upload, delete, drop, run stored procedures & functions
  - Run NLP model to predict mapping of source to destination fields
  - Create logic rules using drop downs, Python code was generated & saved into rules repository table in database
  - Work on excel files like merging files, splitting into individual files, data cleaning & manipulation etc.
  - View descriptive statistics of provided files
  - Create dynamic plots by selecting different columns
- Developed SQL stored procedures, functions catering to different business needs
- Developed data quality dashboards in Power BI and also created weekly/monthly reports containing trends & drill downs for senior management

● **Client Name: Mr. Cooper** — Apr'15 – Dec'20

Key Technologies: MS SQL, SSIS, Power BI, Python

- Responsible for successfully boarding prior servicers loans to the client's system
- Lead assigned business analysts throughout project lifecycle to ensure timely delivery of all initiatives
- Served role of subject matter expert for Business Partners throughout the project development lifecycle to ensure their needs are addressed
- Ensured the quality of the data using the different types of edit checks created using SQL, VBA & Macro
- Reporting portfolio stratification to the investors and senior management
- Developed dashboards in Power BI for different KPI for multiple levels
- Implemented NLP model to predict customer letter is a request or complain to assess & mitigate the risk

★ **Homeward Residential India Pvt. Ltd., Pune** AUG'12-APR'15

Key Technologies: Oracle SQL, VBA, SPSS

- Own Daily, Weekly, Monthly and Quarterly Reports of the Company Portfolio Performance which are sent to the top management.
- Created/worked on performance dashboards for Foreclosure and Bankruptcy.
- Extensively worked on Risk management by creating reports on Foreclosure, Bankruptcy and Special Servicing.
- Automated Scheduled reports/Models using excel, VBA & SQL.
- Studied Industry research reports and compared the performance of the firm's portfolio against the Industry.
- Worked with Rating Agencies like CITI, S&P, Fitch by providing the numbers related to the firm which helps them in rating the firm and the industry.
- Worked on other Ad-hoc Analysis requests from the Senior Management.

★ **Synygy India Pvt. Ltd., Pune** Jul'11-Jun'12

Key Technologies: MS SQL, Excel Macros, Power Point

- Projected & reported revenues on a weekly, monthly, quarterly and yearly basis.
- Analysed and reported:
  - Revenue productivity on departmental basis and at company level.
  - Expenses at departmental and company level.
- Co-ordinated with different departments to create the accurate reports.
- Presented reports to Account Executives and Directors on their revenue accounts.
- Helped HR team in recruiting right positions at right location to minimize the cost and lowering attrition by creating accurate reports.
- Helped sales team in improving their productivity by creating accurate and meaningful reports.
- Optimized the reports by using Macros or other coding techniques

★ **Fountain / Capstone Securities Analysis Pvt. Ltd** May'09-Jul'11

- Conducted analysis on trends in securities of DOW and NASDAQ Indices.
- Placed the orders through various Electronic Communication Networks (ECNs) and executed complete trade.
- Took corrective action by analyzing market and stock condition with proper risk to reward ratio.
- Followed various strategies like hedging and exit strategies to operate the open position.