

Vedant Ghavate

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WORK EXPERIENCE

Business Intelligence Developer, *Tata Consultancy Services*

Feb 2021 - Aug 2022

- Provided Cross-functional support for Data Warehousing, ETL, and Migration for three projects (80/20 Analysis, SPS Pricing, and Intercompany) as an end-to-end Snowflake and Tableau resource from development to maintenance.
- Developed over 50 SQL views to rank, and categorize accounts in Snowflake on six levels for AR/AP/GRIR on six SAP keeper systems.
- Designed SQL scripts for data loads and scheduled 12 IICS jobs to automate migration and reduce 95% manual intervention.
- Identified 82% of dormant accounts by creating six Tableau Dashboards, improving analysis efficiency.
- Prepared 60+ technical documents detailing maintenance and debugging scope for the migration pipeline.
- Investigated the root cause of inflated sales and decreased production to find incorrect and abnormal data.
- Achieved a turnaround time of 36 hours to resolve miscellaneous issues with Tableau Dashboard.

Data Analyst, *Yash Dairy & Milk Products*

May 2020 - Dec 2020

- Built a Python-based parser for existing spreadsheets and a report-generation system for a dairy business with 650 accounts.
- Saved 97% of the time required by replacing manual entry and allowing analysis of daily deliveries, account-wise and product-wise sales.
- Engineered visualizations for reviewing monthly data, predicting order volume, and estimating seasonal sales.

TECHNICAL SKILLS

Programming Languages: Python, R, C, C++, PHP

Tools: Tableau, Airflow, Spark, PowerBI, ArcGIS, Kafka, Excel, Looker, Hive, Klipfolio, SAP Analytics Cloud

DBMS: MySQL, MongoDB, Google BigTable, Snowflake

Cloud Technologies: AWS (EC2 Instance, S3 Bucket)

Frameworks: Numpy, Scipy, Scikit-Learn, Tensorflow, Keras, Pytorch, Pandas, Nltk, Matplotlib, Folium, Statsmodels, Spacy, Scrapy, Lightgbm, Theano, Ramp, Pipenv, Caffe2, Chainer

EDUCATION

Master of Science - Big Data Analytics

San Diego State University

Aug 2022 - May 2024

Bachelor of Engineering - Information Technology

Savitribai Phule Pune University

Aug 2016 - May 2020

Coursework: Predictive Models, Data Science, Data Visualization, Statistical Methods, Reinforcement Learning, Business Analytics, Artificial Intelligence, Big Data Tools, Data Mining, Neural Networks, Computer Vision, Google Earth Engine

RESEARCH EXPERIENCE

Graduate Assistant, *San Diego State University Research Foundation*

Feb 2023 - May 2024

- **War in Ukraine and Energy Stock Market** - Collected ~15000 tweets through Tweepy, developed a data pipeline for preprocessing and sentiment analysis, and predicted stock price performance using Natural Language Processing (NLP).
- **Generative Question and Answer System** - Developing a Large Language Model (LLM) and BERT-based Model to summarize and extract insights based on a dataset of over 1600 published research papers.
- Used unsupervised topic modeling algorithm 'lib2vec' to categorize research papers and extract the central idea of the paper.
- System Engineer for The Language Acquisition Resource Center - Streamlined Selenium and Python scripts to automate audio prompts' validation and data entry, overachieving the initial migration target of 3 languages to 16 languages.
- Newsletter Editor for 'AI4Business Lab' to procure funding for the lab, organized presentations for guest speakers, and oversaw research.

Disparity in Affordable Healthcare Insurance Across America

Jan 2024 - Present

- Assembled Dashboards, to highlight plan prices based on population and income and to identify counties offering plans based on members.
- Performed EDA of ~14 GB datasets across 2014-2024, to extract significant corrections and engineer new features.
- Modeled five regressor models to interpret the importance of features and concluded a decision tree with 82% accuracy.

PUBLICATIONS

- Y. Liang et al., "An Interpretable Image Denoising Framework Via Dual Disentangled Representation Learning," in *IEEE Transactions on Intelligent Vehicles*, doi: [10.1109/TIV.2023.3331017](https://doi.org/10.1109/TIV.2023.3331017).
- *Survey of Receipt Identification and Classification using Machine Learning. Our Heritage, Vol-68-Issue-15, January 2020, 278-285*