

SWATI DIXIT

Data Analyst | Python | Machine Learning | Data Visualization | Power BI | SQL

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PROFILE SUMMARY

Results-driven Data Analyst skilled in Python, SQL, Machine Learning, Natural Language Processing (NLP), and Business Intelligence to deliver actionable insights for informed business decisions. Experienced in predictive modeling, AWS and Google Cloud Platform, Power BI dashboard development, and ETL process optimization. Delivered measurable business impact with **20%** higher forecast accuracy, **25%** faster reporting, and **30%** workflow automation. Adept in data wrangling, data mining, and trend analysis to drive strategic decisions.

PROJECTS

- **AI Voice Agent** – Developed a real-time AI voice assistant using NLP (SpeechRecognition, Google Speech API) and Flask, enabling **90%** accurate voice-based query handling.
- **Movie Recommendation System** – Built a content-based recommendation engine using Cosine Similarity & TF-IDF, improving recommendation precision by **15%**.
- **Wine Quality Analysis** – Performed data wrangling, exploratory analysis, and regression modeling in Python (Scikit-learn), achieving **92%** prediction accuracy.
- **Facebook Live Sellers Engagement Analysis** – Analyzed user engagement patterns using Pandas & Matplotlib, identifying posting schedules predicted to increase engagement by **18%**.

WORK EXPERIENCE

Software Developer Intern – Taruna Technology

(Apr 2025 – Jun 2025 | Vadodara, Gujarat)

- Designed and deployed REST APIs (FastAPI) and built data preprocessing pipelines (Python, Pandas), improving data readiness by **15%**.
- Integrated Power BI dashboards to monitor KPIs, cutting report generation time by **25%** in under 2 months.

Data Analyst – First Neuron

(Dec 2024 – Mar 2025 | Chennai, India)

- Performed statistical analysis and predictive modeling, improving forecast accuracy by **20%**.
- Automated data extraction and transformation (Python), reducing manual work by **30%**, and developed ML classification and recommendation models to improve business insights.

EDUCATION

B.Tech in Computer Science Engineering (AI) – Expected 2025

Parul Institute of Engineering & Technology, Vadodara, Gujarat

CERTIFICATIONS

- Python Basics – HackerRank
- Data Science – IBM Developer Skills Network (Cognitive Class)
- Machine Learning Program – Finlatics
- Introduction to AI & ML – Google Cloud
- Deloitte Data Analytics Job Simulation – Forage

SKILLS

Programming: Python, SQL, C

Frameworks/Libraries: NumPy, Pandas, TensorFlow, Scikit-learn, Matplotlib, FastAPI

Tools & Platforms: Power BI, Tableau, Jupyter Notebook, VS Code, PyCharm, Google Colab

Core Competencies: Data Wrangling, Data Analysis, Data Mining, KPI Reporting, Predictive Modeling, Dashboard Development, Machine Learning, Deep Learning, NLP, ETL, Data Visualization

Soft Skills: Analytical Thinking, Problem Solving, Communication, Leadership, Research Mindset

KEY ACHIEVEMENTS

- Improved operational efficiency by integrating automation and ML-based insights.
- NCC 'A' Certificate – Recognized for leadership and discipline.