

# Devanshi Pandya Data Analyst

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## PROFILE

Results-oriented Data Analyst & Scientist with 3+ years of experience leveraging Python, SQL, and Machine Learning to drive strategic business decisions. Proven expertise in building GenAI applications (LangChain), predictive models (XGBoost), and automated dashboards that enhance operational efficiency. Adept at translating complex datasets into actionable insights for cross-functional stakeholders.

## WORK EXPERIENCE

### Data Analyst | Cloudify Technologies (Contracted to Verizon)

July 2024 – Present | Remote, USA

- Analyzed workflow automation logs and built cycle-time models to identify failures, reducing troubleshooting time by ~40% and increasing reporting accuracy by ~65%.
- Replaced a static 450-line SQL script with an AI-assisted Python pipeline, leveraging GenAI to dynamically parse complex JSON event streams, significantly reducing manual code maintenance.
- Developed SQL pipelines to validate network deployment metrics across thousands of sites, improving version tracking accuracy by ~55%.
- Designed automated dashboards (Tableau, Looker, Excel) that reduced manual reporting by ~40% and provided real-time visibility into KPIs.

### Data Analyst | Brillio

September 2023 – June 2024 | Tampa, USA

- Built predictive models (Time Series, Regression) in Python and R, improving forecast accuracy by 20-30% and guiding operational strategy.
- Automated SQL & Python ETL pipelines, reducing data processing latency by ~40% and ensuring reliable datasets for reporting.
- Developed churn prediction models using TensorFlow and Scikit-learn, boosting performance by ~15% and enabling targeted customer retention.

### Business Data Analyst | USC Auxiliary Services

February 2022 – May 2023 | Los Angeles, USA

- Built interactive Power BI and Excel dashboards that reduced manual reporting time by ~40% and improved data clarity.

## KEY PROJECTS

### AI-Powered Natural Language Database Assistant | [\[GitHub\]](#)

- Built a GenAI application enabling non-technical stakeholders to query complex SQL databases using natural language, reducing ad-hoc data retrieval time by ~80%.
- Implemented schema-aware prompt engineering with LangChain to successfully execute multi-table joins on a live PostgreSQL database.

### Customer Churn Prediction & Risk Analysis | [\[GitHub\]](#)

- Engineered a predictive analytics pipeline using XGBoost to identify at-risk customers with 79% accuracy, utilizing the Telco Churn dataset.
- Integrated SHAP (Explainable AI) values to interpret model decisions, identifying "Month-to-Month Contracts" as a primary churn driver.

## TECHNICAL SKILLS

**Languages & Core Libraries:** Python, SQL, R, Pandas, NumPy, Scikit-learn, PyTorch (or Keras/TensorFlow)

**Generative AI & LLMs:** OpenAI API, Hugging Face Transformers, LangChain, Prompt Engineering, RAG (Retrieval-Augmented Generation)

**Machine Learning & Analytics:** Predictive Modeling, Regression, Classification, Clustering, Time Series Forecasting, A/B Testing, Customer Segmentation, Churn Modeling

**Data Engineering & Databases:** ETL Pipelines, SQL(MySQL, PostgreSQL, Oracle), JSON Parsing, Data Validation

**Visualization & BI:** Tableau, Power BI, Excel, Matplotlib, Seaborn

**Cloud & DevOps:** AWS (SageMaker, S3, EC2), Jenkins CI/CD, Git/GitHub

## EDUCATION

M.S. Electrical & Computer Engineering | University of Southern California | May 2023

B.Tech. Electrical & Communication Engineering | Gujarat Technological University | May 2021