

Birva Chudasama

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# SUMMARY

EDUCATION

**Georgian College:**

*PG Big Data Analysis, Artificial Intelligence (2024 – 2025)*

*CGPA:3.7*

**Gujarat Technological University:**

*B.E. Information & Technology (2014-2018)*

*GPA:3.3*

PROJECTS WORKED ON

* NLP-driven qualitative data analysis and predictive analytics projects
* Smart city, labor market, and collision pattern analytics with dashboards
* RLHF pipeline for text summarization using human feedback and Actor-Critic reinforcement learning to fine-tune a language model
* Built an AutoML (TPOT) and Actor-Critic RL pipeline for structured data, optimizing predictions and iterative decision-making policies.

DOMAINS

* Finance & Banking
* Big Data & Smart City Analytics
* Fraud Management
* Machine Learning & AI

SOFT SKILLS

* Data Storytelling & Requirement Gathering
* Stakeholder & Global Team Collaboration
* Problem Solving & Critical Thinking
* Documentation & Knowledge Sharing
* Positive Attitude & Adaptability

JOB TYPE

* Full Time, Contract, T4,
* Availability - Immediately

# Data Analyst with advanced expertise in SQL, Python experienced in managing large

# datasets, data warehouses, and Big Data environments. Skilled in complex SQL for data

# migration, issue resolution, and transformation mapping with strong RDBMS (MySQL) knowledge.

# Proven ability to deliver high-quality analytics and documentation in Finance, Risk Management,

# and regulatory domains while collaborating with global teams across time zones.

# TECHNICAL SKILLS

Programming & Analytics

Tools & Technology

Business

Skill

* python (Pandas, NumPy, Scikit-Learn), NLP (NLTK, SpaCy),
* Machine Learning, Predictive Modeling,PySpark, A/B Testing, Statistical Analysis: Probability, Distributions, Hypothesis Testing
* Power BI, Tableau, AWS, Visual Studio, Excel, MySQL,

Data warehousing, Git, API Integration

* Data Storytelling, Requirement Gathering, Documentation,

Global Team Collaboration

# PROFESSIONAL EXPERIENCE

**Balasinor College of Polytechnic – Gujarat, India**  
**Data Analyst & Assistant Lecturer** – Apr 2020 – Dec 2023

* Developed a Python + MySQL application to automate fee collection, validation, and

receipt generation for 10,000+ student records, reducing manual errors by 30%.

* Designed and implemented data cleaning and processing pipelines (validation,

deduplication, normalization) to ensure accuracy and consistency in a normalized

database schema.

* Built and deployed Power BI dashboards for real-time financial tracking, reducing

reconciliation time from 3 days to same-day reporting.

* Created a qualitative data analysis tool to automate theme extraction and sentiment

analysis from survey responses.

* Designed an NLP pipeline to classify sentiment and extract actionable insights,

improving efficiency and accuracy of survey analysis.

* Developed an interface that streamlined survey analysis workflows, significantly reducing

manual review effort and turnaround time.

**Academic Projects**

**NYC Motor Vehicle Collisions & Complaints – Smart City Analytics**

* Conducted data cleaning, feature engineering, and forecasting on NYC crash data using

SARIMA/Prophet.

* Integrated NYC 311 API for real-time risk alerting and monitoring.
* Designed interactive dashboards (Power BI) to track crash patterns and complaint

clusters for stakeholders.

**Canadian Labour Force & Twitter Sentiment Analysis**

* Combined Statistics Canada Labour Force Survey with Twitter sentiment data for

workforce insights.

* Applied Logistic Regression, KMeans clustering, sentiment analysis, and A/B-style evaluations to uncover links between employment trends and public opinion, supporting economic and workforce planning.
* Delivered insights to support economic planning and labor force strategy.

**Toronto Collision Patterns Dashboard (2010–2023)**

* Analyzed 1.2M+ Toronto collision records with traffic, weather, and spatial datasets.
* Performed geospatial hotspot analysis using shapefiles (Centreline v2 – 4326).
* Built a Tableau dashboard to visualize collision patterns and support data-driven decision