Bhavya Parmar

Boston, MA 02119 | parmar.bha@northeastern.edu |+1(857) 763-7145| LinkedIn | GitHub | Website | Tech Blog: Channel

EDUCATION:

Masters in Information Systems | Northeastern University | Boston, MA **| GPA: 3.91/4.00**   *May 2025*
Relevant Courses: Data Science (Predictive Modeling, Trend Analysis, Advanced Analytics, Feature Engineering), Database Management (MySQL, Data Reconciliation, Cloud Data Warehousing), Business Analysis (Data-Driven Decision-Making, Compliance Reporting)

Bachelor of Engineering (BE) in CS | University of Mumbai | Mumbai, India **| GPA: 3.94/4.00**   *May 2022*

TECHNICAL & SOFT SKILLS:

- **Certifications**: AWS Solutions Architect – Associate, AWS Cloud Practitioner
- **Programming & Querying**: SQL (T-SQL, MySQL, Snowflake, Redshift, BigQuery), Python (Pandas, NumPy, Prophet), R, SAS
- **BI & Dashboards**: Tableau, Power BI (DAX, Embedded), Looker Studio, Qlik Sense, Streamlit, Salesforce CRM
- **ETL & Data Engineering**: Airflow, dbt, Azure Data Factory, Alteryx, SQL Server, Snowplow, RapidMiner
- **Automation & APIs**: Power Automate, Excel, FHIR/HL7 API Integration, .env Management, Great Expectations, Airbyte
- **Analytics & Modeling**: Forecasting, A/B Testing, Segmentation, Risk Scoring, Churn/Fraud Detection, Time Series Analysis
- **Tools & Collaboration**: Git, JIRA, Confluence, AWS EC2, Agile, HIPAA/GDPR Compliance, Executive Reporting

PROFESSIONAL EXPERIENCE:

Data Analyst Consultant   *Jul 2022 – Aug 2023*
Protiviti Inc   Remote
- Designed real-time reporting pipelines in **Tableau**, supporting daily performance reviews across sales and operations, which enhanced onboarding visibility and improved SLA tracking accuracy by **32%** for regional delivery teams.
- Refactored ETL modules using **Azure Data Factory**, streamlining cross-system sync for licensing data and standardizing lead-routing metrics, reducing processing latency by **41%** and aligning routing with carrier-level strategy.
- Developed dynamic dashboards in **Salesforce CRM**, embedding pipeline heatmaps and onboarding status by entity, enabling VPs to intervene earlier and increasing onboarding efficiency by **27%** within underperforming offices.
- Established automated trend alerts using **dbt Cloud**, surfacing key insights around agent churn, carrier workflow gaps, and regional onboarding friction, enabling data-led recommendations with **18%** improvement in quarterly onboarding rates.
- Enabled team-level forecasting audits via **Redshift SQL**, building custom QA scripts to validate entity readiness, performance deviation, and data compliance, reducing manual onboarding review time by **36%** across teams.

Business Data Analyst   *Nov 2021 – Jun 2022*
Gormal One LLP   Mumbai, India
- Restored broken metric pipelines using **Power BI**, integrating licensing timelines and carrier-product matches to support new agent office placement; this improved market entry accuracy by **29%** and reduced mismatch scenarios.
- Engineered multi-layered onboarding scorecards in **Looker Studio**, presenting state-wise licensing cycle time, agent readiness, and workflow bottlenecks; it accelerated placement strategy meetings and improved lead routing by **21%**.
- Advanced predictive analytics using **Python (Prophet)** to project licensing throughput based on carrier approvals and regional agent trends, supporting quarterly resource planning with **95%** forecasting accuracy.
- Enhanced licensing compliance tracking with **Qlik Sense**, visualizing approval backlog KPIs and identifying underperforming workflows, resulting in a **33%** boost in cross-functional alignment with carrier relations.
- Deployed anomaly detection scripts in **SQL Server**, flagging inconsistencies in licensing state coverage and agent onboarding data; reduced data validation cycles by **38%** and improved audit-readiness scores.

Clinical Data Analyst   *Jul 2020 – Aug 2021*
Exposys Data Labs   Mumbai, India
- Recognized **SQL Server**-based automated data validation pipelines to flag inconsistencies in **EMR** and claims datasets, reducing data errors by **40%**, improving compliance with **HIPAA & GDPR**, and enhancing accuracy across patient financial records.
- Built dynamic dashboards using **Power BI Embedded** and **Tableau Server**, integrating real-time **provider reimbursement** KPIs and patient billing metrics. Reduced compliance violations by **25%** and enhanced audit reporting workflows for healthcare stakeholders.
- Ensured anomaly detection using **R (anomalize + tsibble)** to flag high-risk claims across payer databases. Decreased fraud exposure by **20%**, refined risk stratification logic, and improved underwriting accuracy for insurance partners.
- Engineered cost-to-care models using **Python (Prophet)** and time-series EMR logs to forecast patient inflow and resource demand. Enabled hospitals to optimize reimbursement schedules and cut inefficiencies by **30%** in quarterly reporting cycles.
- Applied rule-based risk scoring logic in **SAS Enterprise Miner**, leveraging historical **ICD-10** claims & process data to detect fraud-prone cases.

PROJECTS:

Formula 1 Regulation RAG Model | FastAPI, Apache Airflow, Snowflake, Streamlit | _Link_   *May 2025*
- Built a real-time **RAG-powered platform** using **FastAPI** and **Streamlit** that ingests and visualizes F1 regulations and race data, enabling teams and officials to query updates instantly and reducing manual lookups by **40%.**
- Orchestrated scalable **ETL pipelines in Apache Airflow**, deployed via **AWS EC2**, enabling real-time data refresh and **100%** query accuracy.
- Created **performance-tracking BI models** using **Python** and **Snowflake** to uncover inefficiencies cutting decision latency by **30%**.
- Designed interactive dashboards for race analytics in **Streamlit**, lowering ad hoc reporting demands by **25%**.

Medibot | Streamlit, OpenAI, Python | _Link_   *Feb 2025*
- Launched Medibot, **an AI-driven self-service platform** using **Streamlit & OpenAI API**, automating responses for **medical inquiries** and **reducing manual intervention by 40%.** Improved efficiency by enabling real-time query resolution, enhancing user experience.
- Leveraged **GPT-4o-mini** for accurate insights, improving **user satisfaction by 30%** and enabling data-driven pricing recommendations.
- Implemented **secure API management** with .env files, ensuring compliance and reducing **API vulnerabilities by 40%**.
- Built **real-time analytics dashboards**, tracking **ROI & operational impact metrics**, supporting executive **QBR presentations.**