

# Purva Prakash Kekan

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## EDUCATION

**Masters of Science in Analytics | GPA 3.93/4.0 - Northeastern University | Boston, MA** **Mar 2025**

- **Award:** “CPS Scholars and Leaders Award” - Awarded to top 1% graduate students for exceptional academic achievement and leadership
- **Relevant Coursework:** Big Data, Predictive Analytics, Enterprise Risk Management, Data Mining, Healthcare and Pharma Analytics

**Bachelors of Science in Information Technology | GPA 3.70/4.0 - Mumbai University | Mumbai, India** **May 2023**

- **Relevant Coursework:** Database Management, Business Intelligence, Project Management, Python, Artificial Intelligence

## WORK EXPERIENCE

**Data Analyst, IpserLab | Remote, USA** **May 2025 – Present**

*Early-stage AI startup incubator building CAVO, an inclusive trip-planning platform focused on traveler safety and accessibility*

- Led analytics enabling **cross-functional teams** to drive **20% faster** safety interventions by building **15+ KPIs** on **risk** and **satisfaction**
- Delivered **real-time insights** across **10+ data feeds**, boosting **public health**-aligned travel accuracy by **25%** through **safety APIs**
- Authored **analytic reports** presenting **15+** actionable recommendations to technical and non-technical **stakeholders**

**Healthcare Data Analyst, Boston Public Health Commission | Boston, USA** **Jan 2025 – Mar 2025**

*Boston's \$300M+ municipal public health agency delivering healthcare, safety, and equity programs to 700K+ residents*

- Processed **65K+ public health records**, certifying **accurate SLA** and **regulatory compliance** using Power BI and Python
- Translated **statistical findings** into narrative reports **supporting quality improvement**, by applying over **10 descriptive statistics**
- Predicted service demand in **high-risk areas**, supporting **resource allocation** by applying **SARIMA** and AI-assisted anomaly detection

**Data Analyst, KARA - Kids At Risk Action | Boston, USA** **Apr 2024 – Jun 2024**

*U.S. nonprofit advocacy group dedicated to strengthening child welfare systems and advancing national policy reforms*

- Consolidated **1M+ CPS records** raising **child welfare** reporting accuracy by **40%**, aligning with **public health policy standards**
- Analyzed **maltreatment** and **fatality trends**, enabling advocacy and **funding campaigns** by building **30+ Tableau visualizations**
- Flagged **high-risk states** for early interventions, increasing **prevention effectiveness** by **30%**, using **Python** and **predictive modelling**

**Data Analyst, Acute Bioscience | Remote, India** **Jul 2022 – Dec 2022**

*Indian life sciences distributor supporting 100+ healthcare and research organizations with lab consumables and equipment.*

- Evaluated **50K+ product sales records** across lab safety systems, **upgrading** reporting accuracy by **25%** using **MongoDB** and **Excel**
- Anticipated demand for lab consumables, **reducing stockouts** by **20%** and **service delays** by **26%** through **R modeling**
- Automated **compliance reporting workflows**, cutting processing time by **30%** while maintaining **data privacy** and **HIPAA standards**

## PROJECTS

**Atomic Habits: Semantic Relationship Mapping**

- Created NLP + GenAI Streamlit app using **Hugging Face models**, **boosting 40%** insight retrieval with **semantic clustering** and **TF-IDF**
- Generated contextual summaries of **50+ mental health** terms improving sentiment efficiency by **30%** by applying **LangChain** workflows
- Crafted an **interactive concept network** enabling users to explore **thematic relationships** across concepts with **PyVis & NetworkX**

**Respiratory Mortality Analysis System**

- Forecasted respiratory mortality from **200K+ CDC records** achieving **91% accuracy**, using **Random Forest** and **Logistic Regression**
- Built an **end-to-end analytics system** shipping real-time geospatial insights for **high-risk regions** using **FastAPI** and **PostgreSQL**
- Produced **narrative reports** and **summary presentations** for stakeholders emphasizing recommendations for **public health action**

## TECHNICAL SKILLS

- **Programming & Data Tools:** Python, R, Excel (Macros, VBA), GitHub
- **Visualization & Reporting:** Power BI, Tableau, Streamlit
- **Databases & Data Management:** SQL, PostgreSQL, MongoDB
- **Frameworks, Libraries & AI Tools:** Hugging Face, LangChain, PyVis, NetworkX, TF-IDF, FastAPI, SARIMA