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 for Cavo, an AI-trip planner **boosting 50%** tracking efficiency by **merging 10+** data feeds into **Excel** and **GitHub**
- Designed **KPIs** on **safety trust** & **satisfaction**, accelerating **20% faster** product iteration by aligning **cross-functional teams**
- Authored **analytic reports** presenting 15+ actionable suggestions to technical and non-technical **stakeholders** bridging gap **across teams**

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-volume areas**, supporting equitable **resource allocation** by applying **SARIMA forecasting** model

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 national **child welfare reporting** accuracy by **40%**, through Excel and Python
- 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%**, through **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 **SQL & Excel**
- Forecasted demand for lab consumables, **reducing stockouts** by **20%** and **service delays** by **26%** through **R modelling**
- Automated **sales compliance reporting** and **reconciliation workflows**, **cutting processing time** by **30%** by using **SQL** and **Python**

PROJECTS

Atomic Habits: Semantic Relationship Mapping - Personal Project

- Created an NLP-based **Streamlit** dashboard **boosting insight retrieval** by **40%** using **TF-IDF**, **semantic clustering** and visualization
- Studied relationships between **50+ mental health terms**, creating interactive **concept network** using **PyVis** and **NetworkX**
- Unified **search-driven access** to clusters and topic patterns **improving sentiment discovery efficiency** by **30%**

Respiratory Mortality Analysis System - Personal Project

- Forecasted respiratory mortality from **200K+ CDC records** achieving **91% accuracy**, using **Random Forest & 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

- **Data Visualization & BI Tools:** Power BI, Tableau, Excel, Streamlit, PyVis, NetworkX, FastAPI
- **Programming & Databases:** Python, R, SQL, PostgreSQL, GitHub
- **Analytics & Machine Learning:** Descriptive Statistics (mean, median, mode, standard deviation), Random Forest, Logistic Regression, SARIMA Forecasting, NLP - TF-IDF, Semantic Clustering