AMRUTHA PULIKOTTIL

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ACHIEVEMENTS

- Recognized by TechPoint as a leader in research and development as a [Tech25 Award recipient in 2021.](#)
- Presented with the Health Commissioner of Indiana, Dr. Kristina Box, on the state of infant mortality in Indiana.
- 10+ years of experience partnering with business and technical teams to build data engineering, data science and visualization tools.

TECHNICAL SKILLS

Python | SQL | Databricks | Pentaho | Knime | Tableau | PowerBI | Microsoft Office Suite | AWS | Azure | GCP | Algorithm Development | Data Visualization | Data Pipelines | Process Improvement | Experimental Study Design

EXPERIENCE

Founder & Chief Data Scientist

Equatable AI| Indianapolis, IN   April 2024 - Present

- After a decade in advanced analytics, I founded my own company that provides data science and data visualization solutions to clients on a contract basis.
- Current contract: building 6 dashboards for the Health First Indiana program through a partnership with Delineate Consulting.
- Other development: building a matching algorithm to connect neighbors with each other to address loneliness, weak support systems, and estranged family relationships through a partnership with a local psychiatrist.

Senior Data Analytics Manager

Milliman | Indianapolis, IN   Dec 2022 – April 2024

- Accountable for leading the conception, architecture and delivery of leading-edge data science and visualization solutions to health and human services clients particularly Medicaid.
- Managed and grew the Indianapolis data science practice through coaching, hiring, and restructuring the team.
- Developed analysis plans by working with different stakeholders and business leaders.
- Served as a key client contact and primary developer for the state of [Kentucky's Health Equity dashboard](#), including the development of a [Health Opportunity Index](#) that uses principal component analysis to synthesize the numerous social determinants of health that influence health outcomes.
- Create predictive customer segmentation models to help providers identify individuals at risk of health conditions or in need of services.
- Build data-driven presentations and write research papers that translate complex data analyses into actionable insights including two papers on serious mental illness - [potential coverages gaps](#) and [treatment adherence](#).

Data Science Manager

Resultant (Formerly KSMC) | Indianapolis, IN   Oct 2021 – Dec 2022

- Responsible for 60% of data science department revenue by generating around $3 million/year and managing a team of 10 data scientists. Grew DS team by 5X in 2 years.
- Data science and data engineering lead for the digital transformation work at Indiana Department of Health (IDOH).
- Presented data science ideas and solutions to the CMO and CDO at IDOH on a weekly basis.
- Experienced with immunization data particularly COVID and childhood vaccines.

Data Science Team Lead

Resultant (Formerly KSMC) | Indianapolis, IN   Oct 2020 – Sep 2021

- Built an agent-based model (ABM) to estimate the spread of SARS-CoV-2 in Indiana for the Department

of Health and Governor Holcomb to guide decision making during the pandemic. ABM model incorporated several scenarios such as vaccines, school closures, in-person elections, and mass events such as the Indy 500.
- Conducted ad hoc analyses to address emerging health concerns e.g., odds of reinfection with and without a vaccine, and estimating vaccine demand and supply by region.
- Grew the DS team 3X in 1 year.

Data Scientist

Resultant (Formerly KSMC) | Indianapolis, IN   Jan 2020 – Sep 2020

- Joined the State of Indiana's Emergency COVID Response Team in March 2020.
- Developed pipelines, data cleaning scripts, descriptive analyses, and statistical modeling as needed.
- Developed a ML algorithm to predict patients at risk of congestive heart failure and subsequent hospital readmissions using clinical and social determinants of health for the largest hospital network in Indiana.
- Developed a ML algorithm to predict infant mortality using clinical and social determinants of health.

Enterprise Support Specialist

Cheetah Digital | Indianapolis, IN   Jan 2019 – Dec 2019

- Worked with content and campaign teams to evaluate email open, unsubscribe, and click through rates based on messaging, campaign send timing, and product offers.
- Managed the resolution of critical technical issues, ensuring prompt and complete resolution to key business challenges.
- Analyzed existing processes to identify process improvements.

Data Analyst

Springbuk | Indianapolis, Indiana   Oct 2017 – Dec 2018

- Assisted with requirements gathering, data mapping, and data vetting for 50+ data sources.
- Automated and reduced analysis time of incoming monthly files from 1.5 hours to 30 minutes using Python.
- Created Python and SQL scripts to identify data anomalies to proactively notify client teams of concerns. Identified a critical issue that impacted one-third of Springbuk's users through these alerts.
- Impacted $377,000 in sales and renewals in 12 months by resolving critical data issues.

Statistician

Walker Information | Indianapolis, Indiana   Aug 2015 – Sep 2017

- Analyzed operational, financial, and survey data using statistical techniques including multiple regression, factor analysis, path analysis, stepwise regression, correlations, and chi-square tests.
- Developed a text analytics ruleset to replace the third-party vendor for text classification and sentiment analysis.
- Managed the text analytics software migration from Clarabridge to Ascribe for 20 client programs.

EDUCATION

M.A - Public Administration
Ball State University (2015)

B.A – Political Science-Economics, Minor: Peace & Conflict Transformation
Anderson University (2012)