**Manoj Banjara, Ph.D.**

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**Summary**

* 6+ years of experience in biostatistical programming, data visualization, database management and reporting in healthcare, clinical and pharmaceutical domains.
* Proven track record in data-driven problem solving by designing, executing and synthesizing point analytics to answer specific business questions or support programs/initiatives.
* Analyzed large volumes of structured and unstructured data with an emphasis to evaluate data for anomaly detection, trend analysis and data mining to support various business objectives.
* Experienced in statistical modeling and data mining techniques including Linear Regression, Logistic Regression, Random Forest, Gradient Boosting and Neural Network.
* Good team player with excellent technical and interpersonal skills, pro-active, self-motivated, and strong ability to learn and adapt to new tasks and responsibilities quickly.
* Technical Skills: SAS (Certified Programmer), SQL, Tableau, Python, R

**Relevant Work Experience**

**Sr. Decision Support Analyst- Gateway Health** Pittsburgh, PA **1/2018-Present**

* Performed various analyses and reporting related to Medicaid (CDPS-Rx) and Medicare (CMS-HCC) risk score calculation, medical/pharmacy claims and their encounter status, prospective/retrospective risk adjustment programs and return of investment.
* Supported prospective and retrospective risk gap closure programs through rigorous data analyses and predictive modeling techniques such as linear regression, logistic regression, random forest, gradient boosting, neural network.
* Produced monthly, quarterly and annual risk adjustment and financial projection summary reports/dashboards.
* Designed and developed interactive dashboards in Tableau, accessible to senior management on demand through SharePoint.
* Worked closely with internal (IT, encounter, finance, actuary) and external vendors and served as a troubleshooter point of contact for questions and concerns regarding risk adjustment.
* Performed a suite of analyses for senior leadership to aid corporate decision making.
* Worked closely with executive team to set and meet operational goals by providing decision making data and brainstorming on operational ideas.
* Oversaw junior Decision Support Analyst and on-boarded and trained new team members.
* Tools: SAS (Certified Programmer), SQL, Python, Tableau

**Statistical Programmer- Harvard Pilgrim Health Care** Boston, MA **3/2017-12/2017**

* Performed statistical programming of pharmacoepidemiological studies to detect potential patterns of drug’s effectiveness and side effects, serving as a multivariate and generalizable approach to post-marketing drug surveillance.
* Developed predictive models such as to predict hospitalization risk of asthma patients using administrative healthcare data in a distributed data network environment.
* Created summarized reports and performed statistics on adverse reactions, drug-drug interactions, diagnostics techniques, lifestyle effects on drug therapy, etc. in multiple clinical programs.
* Tools: SAS, SQL, Tableau, Python

**Research Fellow- Cleveland Clinic Foundation** Cleveland, OH **3/2015-3/2017**

* Led multi-institutional collaborative pre-clinical and clinical biomarker discovery and development projects at the Cleveland Clinic, Department of Biomedical Engineering.
* Collaborated with Department of Quantitative Health Sciences on the design and analysis of retrospective studies to develop novel blood-based biomarkers for the diagnosis of non-small cell lung cancer prior the symptoms are apparent.
* Worked with principal investigators, biostatisticians and data managers to perform data extraction, analysis of datasets and create TLFs for diagnostic.
* Worked on clinical trials datasets including Demographic, Medical History, Vital Signs, Adverse Event and Safety.
* Executed wide variety of statistical techniques and methodologies using SAS and R, including a variety of modeling techniques such as multivariate and logistic regression models, Bayesian modeling.
* Published clinical, preclinical, and statistical research papers including Brain research 1630, 225-240 and PloS one 12 (7), e0181409.
* Tools: SAS, SQL, R

**SAS Programmer Intern- Abbott Laboratories** Irving, TX **1/2015-3/2015**

* Worked with statisticians, clinical data managers and SAS programmers to analyze clinical trials data and generate reports.

**Research Assistant**- **Texas Tech University Health Sciences Center** Amarillo, TX **8/2010-12/2014**

* Investigated pre-clinical anti-inflammatory therapies to treat sterile neuroinflammation using peptides, small molecules, and antibodies.
* Provided statistical support for pre-clinical studies to select appropriate statistical methodologies, perform power calculations, randomization, statistical analysis and interpretation of results.
* Participated in summer program to gain foundation in clinical statistics through theory-based lectures and hands-on statistical programing in SAS and R provided by TTUHSC Division of Biostatistics and Epidemiology.
* Published biomedical and biostatistical research papers including GJMR 15 (2), 7-10 and IJCEN 2 (1), 8-15.

**Research Assistant**- **Texas Tech University**Lubbock, TX **8/2008-8/2010**

* Genetically engineered plants to improve salt tolerance and performed statistical analyses to determine significance of genetic modification. Research published in Plant Biotechnol. Rep. 6 (1), 59-67.

**Education**

**Ph.D.** Pharmaceutical Sciences, Texas Tech University Health Sciences Center

Amarillo, TX **December 2014**

**M.Sc.** Biology, Texas Tech University

Lubbock, TX **August 2010**

**B.Tech.** Biotechnology, Kathmandu University

Nepal **June 2007**