MAHDER TEKA

DATA ANALYTICS
DATA SCIENCE
BIOINFORMATICS

NASHVILLE, TN

CONTACT INFORMATION

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SUMMARY

Passionate data science professional with over 7 years of experience in the healthcare analytics space. Recognized for expertise in data linking, creating reproducible results and delivering high quality analyses.

SKILLS

- R/ RShiny
- SQL
- Python
- NGS Data Analysis
- Perl
- Tableau
- Windows/Linux/Mac

EDUCATION

George Mason University

Masters of Science, Bioinformatics and Computational Biology
May 2016

Temple University

Bachelors of Science, Biochemistry
May 2014

*Full list of publications can be found on PubMed.

EMPLOYMENT HISTORY

VERANTOS

Senior RWE Data Scientist Feb 2023 - Aug 2023

RWE Data Scientist May 2022 - Feb 2023

- Collaborated with research partners to carve out study specific data requirements and facilitate data acquisition.
- Assisted in protocol, Statement of work (SOW) and Statistical analysis plan (SAP) development.
- Leveraged industry standard data quality checks (e.g. OMOP data quality dashboard) and developed custom in-house scripts to perform rigorous data QC.
- Served as company's SME in patient linking across different data sources (e.g. EHR, claims, registries) via Datavant tokens.
- Mined raw data by utilizing AWS services such as S3, RDS and Athena and worked with engineering to develop ETL specifications.
- Generated all study deliverables including patient cohorts, tables/figures and study reports.
- Maintained a git repository with all documentation of code for transparency and reproducibility.
- Enabled other non-technical stakeholders to explore and visualize data by creating user friendly dashboards and interactive reports in R.

SYAPSE

Senior Insights Analyst Feb 2022 - April 2022

Clinical Data Analyst June 2019 - Jan 2022

- Served as the lead analyst on RWE retrospective studies and helped convert RWD to actionable insights.
- Provided analytical support to epidemiologists, clinicians and other stakeholders to define study requirements and refine variable definitions.
- Developed algorithms and tools (e.g. R functions) to expand the team's analytical capabilities in producing consistent and high-quality insights.
- Built different domain-specific analytical datasets to serve as starting points for future analyses.

DIVISION OF INFLUENZA | CDC

Bioinformatics Data Analyst Jan 2018 - June 2019

- Conducted surveillance of molecular genetic data of seasonal influenza viruses generated from Next Generation Sequencing (NGS).
- Developed queries to retrieve, parse and curate sequencing data.
- Performed phylogenetic data analyses and visualized incoming viral sequences against strains in the relevant season's influenza vaccine.
- Prepared all genetic analyses to be used in the biannual influenza vaccine selection meeting organized by the WHO.

DIVISION OF VIRAL HEPATITIS | CDC

APHL/CDC Bioinformatics Fellow July 2016 - July 2017

- Built a pipeline to transform NGS data to Physical-Chemical Property based numeric feature vectors, trained a classifier and evaluated performance of different models.
- Utilized Machine Learning Algorithms (CAIM and CFS) to construct feature space representation of feature vectors with strong association to stages of HCV infection.
- Developed and optimized a cyber-assay in python, with a classification accuracy of ~91%, for estimating the duration HCV infection to assist in the population wide molecular surveillance of Hepatitis C.