

SAQIB NIZAMI

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SKILLS

PROGRAMMING

Python • PySpark • SQL •
JavaScript (Node.js, Sequelize) •
R • Shell • \LaTeX

INFRA + DEVOPS

AWS • GCP • Aptible •
Docker • CloudFormation •
Terraform • Github Actions

DATA ENGINEERING

PostgreSQL • Snowflake • dbt •
redis • Airflow • GraphQL •
AWS: Lambda, Kinesis, EKS •
REST API • ETL System Design

DATA SCIENCE

Pandas • Jupyter • Numpy •
Scikit-Learn • Tensorflow •
Keras • nltk • spaCy •
statsmodels • imbalanced-learn

LINKS

🌐: saqibnizami
in: saqibnizami
📄: Publications

PROJECTS

INTERPRETABLE BREAST CANCER CLASSIFICATION USING CUSTOM CNN

CAPSTONE. DATA SCIENCE
IMMERSIVE

Apr 2018 - Jul 2018

Developed custom Convolutional
Neural Network in TensorFlow
based on breast cancer cells.
Augmented histology image
dataset using GPU-enabled GCE
and AWS instances. Investigated
model interpretability using
LIME.

EDUCATION

GENERAL ASSEMBLY
DATA SCIENCE IMMERSIVE
CERTIFICATION
New York, NY

R.I.T.

BS, BIOMEDICAL SCIENCE
Rochester, NY
College of Science
Presidential Merit Scholar

EXPERIENCE

ZIPDRUG (ACQ. ANTHEM, INC.) | ENGINEER III, DATA TEAM LEAD

Oct 2019 - Present | Jersey City, NJ

- Maintained legacy PySpark ETL, PostgreSQL RDS, Python codebase, and Looker (lookml) code.
- Expanded Data Engineering and Reporting team by hiring and mentoring engineers and analysts.
- Architected and implemented new scalable solutions to replace legacy code and infrastructure. Utilized Airflow and AWS Elastic Kubernetes Service to orchestrate PySpark ETL and downstream Python/JavaScript data processes.
- Implemented two business program expansions that resulted in tripling of data volume to several hundred-thousand patients and millions of claims.
- Spearheaded Snowflake data warehouse using dbt to build Data Marts. Developed the POC and led Data Warehouse team in Production-level warehousing efforts.
- Created internal reporting dashboards for business teams, investor and executive-level reports, and client-facing reports on program performance.
- Worked on Digital Integration with Anthem's Sydney HealthCare app. Deployed architecture to enable file transfers between Anthem-IngenioRX and Zipdrug teams. Designed and implemented backend application to provide Zipdrug enrollment and status information to Kinesis Data Stream using asynchronous python producer/consumer pattern.

GENERAL ASSEMBLY | PYTHON INSTRUCTIONAL ASSOCIATE

Sep 2019 - Dec 2019 | New York, NY

- Evening Python Programming Class instructor. Taught basic Python Programming (Data Structures, Working with APIs, Analysis with pandas).

Oct 2018 and Jun 2019 | New York, NY

- Taught Python Data Analysis (Basic Data Structures, pandas, matplotlib/seaborn) to an enterprise client: UTC dX.

UBIOME | DATA SCIENTIST, ANALYTICS

Oct 2018 - Jul 2019 | New York, NY

- Developed a statistically balanced Random Forest classification model. Created an API to serve model outputs in production.
- Designed and deployed internal python-based dashboarding platform for Data Analytics Team.
- Used Latent Dirichlet Allocation on customer NPS feedback to identify pain points in the customer journey. Wrote ETL to obtain data from Wootric API.
- Implemented dockerized workflow for the Analytics Team.
- Created ETL for Google Ads and Facebook Ads and maintained analytics team PostgreSQL DB.

MEMORIAL SLOAN KETTERING CANCER CENTER | SR. RESEARCH ASSOCIATE

Sep 2017 - Jan 2018 | New York, NY

- Utilized R and Bioconductor to analyze RNA Sequencing data from tumor cell biopsies

COLUMBIA UNIVERSITY MEDICAL CENTER | SR. RESEARCH TECHNICIAN

Jul 2010 - Jul 2017 | New York, NY

- Established quantifiable functional osteoclast imaging *in vivo* using fluorescent signal analysis. Work published in *Cell* and *Journal of Biophotonics*.
- Conducted and analyzed *in vivo* and *in vitro* dose response/kinetic release curve experiments for novel cancer therapeutic delivery mechanisms.