

SAQIB NIZAMI

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SKILLS

Sci. Python / Deep Learning

pandas, numpy,
scikit-learn, jupyter,
tensorflow, keras,
statsmodels, scikit-image,
imbalanced-learn,
beautifulsoup,
nltk, spaCy

Visualization / Imaging

matplotlib, seaborn,
bokeh, plotly/dash, altair,
pillow/PIL, Tableau

Cloud / Database

AWS, GCE,
Databricks: spark, scala,
PostgreSQL, MySQL,
redis

DevOps / DataOps

git, jenkins,
nginx, uwsgi,
docker, flask,
ETL, APIs

in vitro / in vivo Research

Data Analysis and Interpretation,
Experimental Design,
Tissue Culture,
Small Animal Surgery

Writing

Documentation,
Usage Guides, NIH grants,
Publications: <https://bit.ly/2NID2Lb>,
Textbook chapters

EDUCATION

Data Science Certification

General Assembly.

New York, N.Y.

Data Science Immersive

Bachelor of Science, Biomedical Sciences

Rochester Institute of Technology.

Rochester, N.Y.

College of Science Presidential Merit Scholar

Oct. 2018 – Jul. 2019

uBiome

Data Analyst

Productionized Customer Classification Model

- Developed a statistically balanced Random Forest classification model.
- Created an API to handle model outputs and integration to checkout pipeline.

Dashboard Platform, Internal Data Product

- Created internal dashboarding platform for Data Analytics Team using Python, Plotly, and React.js for analytics deliverables on dedicated AWS instance.
- Led collaboration with Engineering to make platform performant to stakeholder needs.

Topic Modeling of Customer NPS Feedback

- Used Latent Dirichlet Allocation to create salient topic clusters in order to identify pain points in the customer journey.
- Wrote ETL for NPS using Wootric API to internal PostgreSQL DB.

DataOps

- Implemented dockerized workflow for the Analytics Team
- Created installable team python package consisting of commonly used scripts.
- Wrote ETL scripts for Google Ads and Facebook Ad spend and maintained team production SQL database.

Oct. 2018 & Jun. 2019

General Assembly

Instructional Associate, Enterprise Client: UTC dX

- “Python Programming” course instructional team member.
- Taught Python basics and introductory data science concepts.

Apr. 2018 – Jul. 2018

General Assembly

Data Science Fellow, Full Time Immersive Program

Interpretable Breast Cancer Classification using Convolutional Neural Network, Capstone.

- Developed customized CNN architecture in TensorFlow and based convolutional filter size on cell structures.
- Augmented histology images to capture orientation and increase training size.
- Utilized GPU-enabled GCE and AWS instances.
- Investigated model interpretability using LIME to provide accountability to model's classifications.

West Nile Virus Spray Analysis, Class Project.

- Geospatial and Time Series analysis.
- Missing value imputation with regression model.
- Tuned XGBoostClassifier to 94.67% accuracy.
- Used Bokeh and Google Maps API for visualizations.

Sep. 2017 – Jan. 2018

Memorial Sloan Kettering Cancer Center

Senior Research Associate, Dept. of Thoracic Surgery

- Conducted 3D Organoid culture from patient biopsies.
- RNA Sequencing project utilizing R and Bioconductor.

Jul. 2010 – Aug. 2017

Columbia University Medical Center

Senior Research Technician, Dept. of Orthopaedic Surgery

- Study planning and execution, publication authorship, and grant writing.
- Established quantifiable functional osteoclast imaging in vivo using fluorescent signal analysis.
- Conducted and analyzed in vivo and in vitro dose response/kinetic release curve experiments for novel pharmacologic delivery mechanisms.
- Podium presenter at 2012 Orthopaedic Research Society Conference.