# 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

## EXPERIENCE & PROJECTS

**Oct. 2018 – Present** — **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.