

Taral Shah

Data Analyst | TeleMedicine Engineer | Biomedical Engineer

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TeleMedicine Engineer with 3 years of hands-on experience dealing with Data Analysis and Healthcare devices.

Microsoft Professional Certificate in Data Science and support on various cardiology and radiology products.

Experience with Business Analytics using Power BI, Tableau, and Various Python libraries.

📁 PROFESSIONAL EXPERIENCE

Data Science Fellow

SharpestMinds, Toronto, ON, Jan 2020 – Present

- Extract and manipulate data from various sources to create a data pipeline.
- Identifies and understands new and emerging patterns through various data analysis techniques.
- Building a full-stack machine learning web application using Python(Scikit-learn, TensorFlow) and Azure Machine Learning Studio.

Telemedicine Lead Engineer

CompuMed Inc., Toronto, CA, Jan 2018 – Present

- Install and Maintain ECG Servers and databases from different vendors like GE, Schiller, and Mortara.
- Building a data pipeline that uses 5 ECG Servers and 3 PACS databases to a centralized database with 40+ features.
- Processed large volumes of granular healthcare data and conducted a statistical analysis to determine the robustness of interpretation.
- Built an automated study upload insight reporting tool (C#, Python) to assess the strengths & weaknesses of the client's user experiences. Reduced upload time by 65% which lead to new product offerings with reduced turn-around time.
- Utilized data visualization techniques and created dashboards (Python, Power BI) for insight into cardiology and radiology study volume, revenue and KPIs.
- Translated statistical findings to various levels of management and played a key role in purchase and software development decisions.

Biomedical Engineer

CompuMed Inc., Los Angeles, USA, May 2014 – Jan 2018

- Primary technical point of contact for Diagnose, troubleshoot, and resolve different types of medical equipment and PACS/RIS platforms.
- Playing a key role in the development of improved processing workflows for decreased operating costs.
- Evaluate and support the roll-out of new technology.
- Design and integration of EHR Platform and related data flows.

📖 SKILLS

Language

Python
SQL
MATLAB
R
C Sharp

Software

Power BI
Azure ML
Tableau
SharePoint
DBeaver & SSMS

🔧 Techniques & Tools

Python (Pandas, statsmodels, Selenium)
Visualization (Matplotlib, Seaborn, Plotly)
Machine learning (Scikit-Learn, PyTorch)
GitHub (Project Management)
Experimental Design (AB Testing)
Business Analytics

👤 PROJECTS

Technical Support improvement using python and zendesk for the development of automated support.

ML model to improve turn-around time of ECG and ECHO using various python libraries and Azure ML

Data Visualization Library for healthcare diseases based on Project TYCHO.

Developing Dashboard using Power BI for KPIs.

📖 EDUCATION

Microsoft Professional Certificate in Data Science

Microsoft Online, edX, 2017

MS in Biomedical Engineering

Wayne State University, Michigan, USA, 2014

BTE in Biomedical & Instrumentation Engineering

Ganpat University, Gujarat, India, 2011