

ALI TAHERI

-----Machine Learning-----
-----Data Engineering-----
-----Data Networks-----
-----Hardware Design-----

📍 San Francisco Bay Area

☎ (925) 238-1094

✉ sataheri@gmail.com

in linkedin.com/in/ali-taheri-tari/

Career Summary

Data Geek passionate about concepts of cutting-edge technologies of Machine Learning and Data Engineering for solving challenging real-world problems, with experience in Telecommunication Networks and Hardware Design

Big Data Skills

Quantitative Skills



- Linear Algebra
- Frequentist and Bayesian Statistics
- Theory of Probability
- Calculus
- Optimization
- Regression Analysis
- Simulation Modeling
- Mathematical Modeling
- Time Series Analysis

Techniques



- Machine Learning
- Data Engineering
- Data Wrangling
- Data Intuition
- Data Analysis
- Data Visualization
- Dynamic Visualization
- Database Design
- Deep Learning
- Artificial Neural Networks

Programming Skills



- Python
- R
- SQL
- Javascript
- D3
- Cipher
- Git
- VHDL
- Verilog
- Hadoop
- Apache Spark
- Pandas
- NumPy
- SciPy
- Scikit-learn
- PyTorch
- Tensorflow
- Keras

Work Experience

Jun 2019 -
Now

Healthcare R&D Data Scientist

PRO Unlimited @ Roche Diagnostics

Employed for Real-World Data studies in HealthCare.

- Evaluation of Healthcare datasets for support of "Navify" platform
- In-depth Exploration of Microbiology section of "Premier" dataset.
- Extract, Transform and Load (ETL) Blood Culture lab results.
- Preprocessing of observations for mapping to SNOMED and NCBI taxonomy dictionaries with NLP technologies.
- Categorization of Bacterial infections in levels of Domain, Family, Genus, and Species with traversing of NCBI taxonomy tree.
- Preparing a fully Interactive and Dynamic Dashboard for exploration of insights by stakeholder.

Jan 2019 -
May 2019

Financial Data Scientist

PRO Unlimited @ Charles Schwab

Employed to complete the Capstone project as part of the Graduate program.

- Data wrangling and preprocessing for the aim of risk assignment.
- Evaluation of different unsupervised learning algorithms.
- Modeling based on Self Organizing Maps(SOM).
- Risk Score Calculation for Fraud/Money Laundering Detection based on different financial scenarios.
- Aggregation of risks to report a unified risk per each client for decreasing false positives.

Sep 2008 -
Aug 2017

Sr. Technical Manager

ITECS

ITECS is a solution provider in fields of telecommunication and banking. ITECS launched the most significant ICT project named Rural ICT in 2008. It also has partnership experience with Companies such as Mastervolt – Netherland, Tenet- Taiwan, Oskomera - Netherland.

- Management of Rural ICT project for internet access to 10,000 villages.
- Design and Implementation of high-speed access solutions over copper with the new standard of G.Shdsl.bis and symmetrical speed of 22.8 Mbps for about 15,000 subscribers.
- Design and implementation of fiber access networks with AON and PON technologies for utility companies and enterprises.
- Development and installation of integrated NMS for telecommunication companies.
- Design and implementation of 25 networks of FTTx, GPON, and VOIP for telecommunication carriers and utility companies.
- Supervision of a plan for designing hardware, firmware and software of V5.2 to SIP trunking gateway with JAVA and Embedded C.
- Development of network management tools with Python and C++.

Sep 2000 -
Aug 2008

Technical Specialist

DPI (Former IBM Branch)

IBM branch, later known as "DPI," started its activity in 1957 coinciding with public census and also the exploitation of first card reader in the country. Considering the growing applications of computers in processing mathematical calculations and data storage, gradually IBM activities in many organizations, ministries and universities began growing, so that in the years 1977 and 1978, with nearly four hundred expert employees, IBM exclusively undertook all processing activities and electronic calculations in critical decision making, planning and academic organizations.

Networking/Telecom Skills

- Network Architecture
- Wired and Wireless Communication
- Telecom Access Networks
- Switching and Routing
- TCP/IP
- WiFi Technologies
- Voice over IP Networks
- Network Troubleshooting
- Cisco Technologies

Professional Qualifications

- **Machine Learning/Data Engineering:** Data-Driven Problem Solving and Critical Thinking.
- **Telecommunication/Computer Networks:** Design and Analysis of Networks.
- **Hardware:** ASIC/FPGA Design by Modeling in Hardware Description Languages.

- Design, implementation, and maintenance of about 45 Networks (LAN/MAN/WAN).
- Design of access networks with diversified transmission technology analog/E1T1/xDSL/fiber/Ethernet.
- Delivered integrated Voice/Data/IP services to about 5,000 mid-sized and Enterprise costumes.
- Development of some hybrid solutions for TDM, ATM and IP Networks.
- Some courses by IBM-certified Instructors.

Education

Aug 2017 -
May 2019

Master of Science, Data Science and Analytics
University of the Pacific, San Francisco, CA

- Statistics
- Linear Algebra
- Data Wrangling
- Fraud Detection
- Database Design
- Data Engineering
- Machine Learning
- Customer Analytics
- Time Series Analysis
- Dynamic Visualization
- Programming in Python/R/SQL

2012 - 2015

P.h.D Candidate, Information and Communication Technology
Sharif University of Technology

- Stochastic Processes
- Fault-Tolerant System Design
- Computer Networks Modeling
- Advanced Computer Networks
- Wireless Communication
- Wireless Networks

Sep 1998 -
Dec 2001

Master of Science, Computer Architecture
University of Tehran

- Testability
- Fuzzy Logic
- VLSI Circuits
- Parallel Processing
- Stochastic Processes
- Formal Verification of Protocols and Hardware Designs
- Digital Signal Processing
- Advanced Computer Architecture

Sep 1994 -
May 1998

Bachelor of Science, Computer Hardware
University of Tehran

- Switching Network Design
- Automata/Language Theory
- Fault-Tolerant Systems Design
- Object-Oriented Systems Design
- Information Storage and Retrieval
- Computer-Aided Design (VHDL/Verilog)