Ali Sarabi

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PROFESSIONAL PROFILE

Experienced Data Analyst and Researcher with expertise in machine learning, deep learning, and optimization, aiming to transition into a Data Scientist role. Certified Six Sigma Green Belt with a strong foundation in problem-solving and technology integration. Eager to leverage analytical skills and technical expertise to drive data-driven decision-making in a Data Scientist position.

EDUCATION

Ph.D. in Industrial Engineering

Arizona State University

2017 – 2025 | Tempe, AZ

M.Sc. in Industrial Engineering

Sharif University of Technology

2014 – 2016 | Tehran, Iran

B.Sc. in Industrial Engineering

K.N. Toosi University of Technology

2010 – 2014 | Tehran, Iran

PROFESSIONAL EXPERIENCE

- **Expeditise LLC (Venture Devil startup), Cofounder, 2023- present:** Developed a full-stack web application using React for the frontend and a serverless backend on AWS to integrate large language models (LLMs) with human advisors, expediting task completion through scalable interactions.
- **Bayer Corporation, Customer Centricity Team, 2022-2023:** I developed deep learning models for selecting the best exogenous variables to include in the forecast and predict the world price dynamics of a chemical product in different market scenarios for the next three months.
- **Arizona State Opioid Response, College of Health Solutions at ASU, 2021:** Data analysis to develop models of opioid use disorder and medication-assisted treatment to identify, monitor, and target resource gaps by delivering actionable data to reduce opioid overdoses and deaths. I visualized the results by creating interactive dashboards in Tableau.
- **Uber Movement, Online routing using a graph neural network, 2020:** A traffic network structure is encoded using Graph Convolutional Networks and a model is trained to predict the travel time optimal routes.
- **Adidas, 3D Data Visualization and Analysis, 2019:** Detecting skin chafing areas using machine learning (segmentation and edge detection algorithms) to provide feedback to players, athletic trainers, and equipment makers.
- **City of Mesa, Clustering & Vehicle Routing, 2019:** Develop heuristic models for cluster customers and optimize vehicle routes with a view to increasing process efficiency.
- **Salt River Project, 2018 Waste Characterization Study, 2018:** Data analysis to expose new areas of improvement in Salt River Project's sustainability initiative. A new analytical framework for measuring waste characterization procedure efficiently.
- **Sharif Advanced Machinery Development Company, Tehran, Iran, 2015-2017:** Writing Business Plan and Feasibility Study reports establishing the company in an Incubator and Market Share analysis.

CERTIFICATES

- **Lean Six Sigma Green Belt Certification,** Arizona State University, Sep 2021, Credential ID 54866019
- **Convolutional Neural Networks**, Coursera, Feb 2021, Credential ID: 2VDGJGHAVCFE
- **Advanced Deep Learning with Keras**, DataCamp, Dec 2020, Credential ID: 16686157
- **Object-Oriented Programming in Python**, DataCamp, Dec 2020, Credential ID: 17209845
- **Recurrent Neural Networks for Language Modeling in Python**, DataCamp, Oct 2020, Credential ID: 16151449
- **Feature Engineering for Machine Learning in Python**, DataCamp, Sep 2020, Credential ID: 16151449
- **Streamlined Data Ingestion with pandas**, DataCamp, Sep 2020, Credential ID: 15977522
- **Getting Started with AWS Machine Learning**, Coursera, Aug 2020, Credential ID: MMVF6NELLNKF
- **Sequence Models for Time Series and Natural Language Processing**, Coursera, May 2020, Credential ID: ZJS9D3BZ7NDJ
- **Sequence Models**, Coursera, Jan 2020, Credential ID: GDPQ9HF2RD4A
- **Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning** Coursera, Sep 2019, Credential ID: 44W95J4MJFEW

JOURNAL PAPERS

- **Sarabi Ali**, Sarabi Arash, Runger G. (Under Preparation). A Deep Learning Framework for High-Dimensional Time Series Forecasting.
- Gordon E. R.*, Salas J.*, Hashemi K., **Sarabi A.**, Amin P., Hirpara M., Nguyen M., Benromdhane R., & Mesinkovska N. A. (Under Review). History of acne predisposing patients with alopecia areata to develop acne on JAK inhibitors. *Journal of the American Academy of Dermatology*.
- Amin P.*, **Sarabi A.* (equal contribution as the first author)**, Choe S., Scott, S., Suh S., & Atanaskova Mesinkovska N. (In Press). Oral hyaluronic acid supplement: Efficacy in skin hydration, elasticity, and wrinkle depth reduction. *Journal of Drugs in Dermatology*.
- Arfaie S., **Sarabi A.**, Solgi A., Michaud E., Rohr E., Giampa L., Ieropoli E., Lasry O., Dudley RW. (November 2024). Hair-sparing Approach Versus Traditional Hair Clipping for Cerebral Spinal Fluid (CSF) Shunting Procedures: A Retrospective Comparative Study. *Journal of Neurosurgery: Pediatrics*
- Arfaie S.*, Amin P.*, Kwan A. T. H.*, Solgi A.*, **Sarabi A.* (equal contribution as the first author),** Hakak-Zargar B., ... & Fallah A. (February 2023). Long-term full-scale intelligent quotient outcomes following pediatric and childhood epilepsy surgery: A systematic review and meta-analysis. *Seizure: European Journal of Epilepsy*.

HONORS AND AWARDS

- Recipient of the Dissertation Research grant from ASU's Graduate College for the academic year 2023.
- Awarded Teaching Excellence twice as a course instructor for the 2023 and 2024 academic years.
- Awarded graduate fellowships for three semesters, along with a comprehensive five-year scholarship from ASU.
- I was ranked first out of 60 classmates in my B.Sc. study, Department of Industrial Engineering, K.N. Toosi University of Technology.
- Having the privilege of being exempted from M.Sc. entrance exam as an "Exceptionally Talented" student.
- Awarded full scholarship from K.N. Toosi University of Technology for bachelor's degree and full scholarship from Sharif University of technology for master's degree.

TECHNICAL STRENGTH

- **Development Skills:** Python (PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, OpenCV, Spectral), MATLAB (Programming, GUI), AWS Services, React, Serverless, SQL
- **Data Science Skills:** Large Language Models, Deep Neural Networks, Classification, Clustering, Regression, Feature Selection, Dimensionality Reduction, Hypothesis Testing, Statistics
- **Other Skills/Tools:** Google Cloud, Tableau, Arena Simulation, LaTeX, ICDL, Visio