Shayan Gheidi, PhD (Canadian Citizen)

Canada | shayan.gheidi@gmail.com | Website | LinkedIn

Education

- ***PhD Physics*****,** Simon Fraser University, Canada (2022)
- ***MSc Physics*****,** University of Toronto, Canada (2017)
- ***BSc Physics*****,** University of British Columbia, Canada (2016)

Work Experience

- ***Associate Data Scientist,*** May 2022 – December 2024
  Euromonitor International, Chicago, IL, USA (TN Visa)

· Trained, tested, monitored, and built machine learning prediction models (NER & logistic regression) to improve metrics (precision and recall) by up to 30%,

· Built Python web app that allowed TBs of data stored on PostgreSQL to be labeled by staff. Improved ML model performance metrics by up to 15% and reduced labeling time by up to 50%,

· Used Python/SQL/BigQuery to calculate annual report of pricing, nutrition and availability of millions of products in 40 countries. Sophisticated interpolation, outlier detection, smoothing algorithms were used. Results were sold to subscribers,

· Developed and scaled a fully featured Python (Dash) web app with a custom database (BigQuery and PostgreSQL), providing users with detailed statistical analysis on millions of products that staff use to write and sell reports.

- ***PhD Researcher***, 2017 – 2022
  Department of Physics, Simon Fraser University, Vancouver, BC, Canada

· Analysis, statistical and computational modelling, visualization, simulation, regression of spectrometer data. Wrote custom Python regression scripts,

· Co-supervised undergrad students, award winning talks and conferences, published 5 peer-reviewed papers, received Faculty of Science Excellence in Teaching Award.

Skills

- ***Programming***: Python (pandas, SciPy, Matplotlib, TensorFlow, Dash, scikit-learn), SQL, Jupyter Notebooks, PostgreSQL, R
- ***Cloud/Tools***: Google Cloud Platform (GCP), BigQuery, Cloud Run, AWS (Lambda, EC2, ECS, ECR), Docker, Git, CI/CD, Tableau, Power BI, Excel
- ***Quantitative***: Machine learning, regression, exploratory data analysis, statistical analysis, modelling, data visualization, analytics, forecasting, time series, web-scraping, dashboards, NLP, A/B testing, LLMs, web dev
- ***Other***: Excellent written, verbal communication and interpersonal/social skills.

Certificates & Personal Projects

- Machine Learning with Python (IBM, Coursera)
- **1-800 Slowed & Reverb:** A moody music processing web application written in Python (Dash, Scipy, Numpy), deployed to Google Cloud Run via Dockerfile + GitHub.