



SUMMARY: Ivy league PhD graduate with foundation in physics and data analysis and recent experience in machine learning and business intelligence. Proficient in Python (Pandas, Numpy etc), SQL, Excel, Power BI and Tableau with proven ability to synthesize complex data into actionable business and operational strategies.

FARIEL SHAFEE

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Aim: To obtain an entry/intermediate level position in data analysis/machine learning.

SKILLS:

Languages: Python, C, FORTRAN, SQL

Tools/BI: Power BI, Tableau, Canva, Loom, Gamma, Powerpoint, Excel (Advanced)

ML/AI: Generative AI, Predictive modeling, Machine Learning, Thematic Coding, Prompt engineering: CLaude AI, ChatGPT, Perplexity

Cloud and Agentic AI: Basic Azure, Snowflake, Spark

PROFESSIONAL EXPERIENCE

Externship by Extern.com in association with Amazon

Oct –Dec 2025

8 weeks

Scraped and analyzed unstructured employee feedback, carried out sentiment analysis, categorized issues into bins and found business recommendations.



Externship by Extern in association with BeReal: Product Innovation Externship:
Completed, completer award 8 weeks

Benchmarked BeReal with competitor products and suggested product feature development. Led focus groups and carried out surveys. Developed a prototype.

Externship by Extern in association with Truebridge Healthcare Data Analytics: Completed,
awaiting certification 8 weeks

Used python programming and AI to analyze health care data and suggest policies. Created a Gamma and Loom presentation to influence policymakers. Created dashboard using Claude AI

Externship by Extern in association with Yinan Value Investing and Financial Modeling:
Completed, awaiting certification 11 weeks

Used Excel to create ratios, DFC and future prediction (base, bull and bear) for Siltronic, a wafer manufacturing company. Also created comparative valuation and investment memo. Used AI as assistant.

EDUCATION

PhD (physics)	2008
<i>Princeton University, USA</i>	
BS (Physics and Mathematics)	1998
<i>Massachusetts Institute of Technology (MIT), USA</i>	
LLB	2020
<i>University of London</i>	
Achievement Award for Contract Law, 2018 (Within top 10 scores, worldwide)	
GCSE O & A levels, University of London	1992-1994

PROJECTS AND SIMULATIONS

APPLIED DATA SCIENCE AND MACHINE LEARNING PROJECTS:

Cloudy Data Bootcamp

July - Nov 2025

- Created Python, Panda, Excel, SQL, Power BI, Tableau projects. Analyzed election data from India's UP state and local elections and formulated policies for the leading party. Carried out complicated Excel calculations.

Think Cloudy Bootcamp

Aug 4 - 8, 2025

Extracurricular Activities:

British Airways Data Science Job Simulation on Forage

October 2025

Data scraping and predictive model building for buying behavior prediction.

BCG GenAI Job Simulation on Forage - October 2025

Created AI-powered financial chatbot development for BCG's GenAI Consulting team using python and pandas and integrated and interpreted complex financial data from 10-K and 10-Q reports, employing rule-based logic to create a chatbot that provides user-friendly financial insights and analysis.

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program on Forage -

November 2025

Analyzed a book of loans to estimate a customer's probability of default and used dynamic programming to convert FICO scores into categorical data to predict defaults

Tata Group Data Analytics Job Simulation on Forage -

November 2025

- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modeling.
- Proposed and justified an initial no-code predictive modeling framework to assess customer delinquency risk, leveraging GenAI for structured model logic and evaluation criteria.
- Designed an AI-driven collections strategy leveraging agentic AI and automation, incorporating ethical AI principles, regulatory compliance, and scalable implementation frameworks.

OTHER PROJECTS HIGHLIGHTING RELEVANT SKILLS:

Citi Investment Banking Job Simulation on Forage – October 2025

- Completed a job simulation where acting as a buy-side analyst for a hypothetical client, Big Box Retail, who were looking to acquire a small retail company
- Created a company profile for the target
- Developed a five-year financial projection using a simple income statement model in Excel
- Drafted a comparative company analysis
- Synthesized an investor update into an internal summary report

Personal Projects:

Jan - Nov 2025

- Quantum Data Analysis:

Data was obtained from Forage and was used to analyse sales of chips. The analysis was largely, though not completely carried out after a Forage project. Separated columns by weight and name, and found selling patterns across stores to recommend business strategy.

- Flight Satisfaction Recommendation:

Data was pulled from Kaggle and analyzed to find correlations of variables in buying tickets to find business strategies.

- Coffee Shop Analysis:

Data was pulled from Kaggle to analyze sales of different items over segments of the day in various stores to find actionable strategies.

Portfolio:

Python, SQL and Excel: <https://github.com/farielshafee2018>

Tableau: <https://public.tableau.com/app/profile/fariel.shafee2444/viz/>

Power BI: <https://github.com/farielshafee2018/power-bi-presentations>

Cloudy Data Project: <https://github.com/farielshafee2018/Cloudy-Data-Power-BI-Project/tree/main>

PROFESSIONAL CERTIFICATIONS AND MEMBERSHIPS:

RELEVANT CERTIFICATIONS USING COURSERA PLATFORM

IBM

IBM Machine Learning with Python and Scikit-learn Specialization, 2025

IBM AI Engineering with Python, PyTorch and TensorFlow Specialization, 2025

IBM Generative AI Engineering Specialization, 2025

Generative Engineering Professional certificate, 2025

IBM Databases and SQL for Data Science with Python, 2025

IBM Machine learning

Google:

Google Advanced Data Analytics Professional Certificate, 2025

Rice University:

Introduction to Scripting in Python

Cybersecurity:

Homeland Security and Cyber Security Specialization: Uni of Colorado System, 2022

Intro to Cyber Security and Risk Management Specialization: Uni of Calif, Irvine, 2021

Snowflake:

Snowflake Data Engineering Professional Certificate, 2025

Machine Learning with Apache Spark, IBM, 2026

Microsoft Azure AI Fundamentals AI-900 Exam prep, 2026

Credly Badges:

<https://www.credly.com/users/fariel-shafee/badges#credly>

EARLY DATA AND SCIENTIFIC PROGRAMMING

- Data analysis and graphing of CMB data, UROP (undergrad research oriented project) , MIT, 1995-1996.
- Creating a manual for existing software at BATES linear accelerator, MA, summer research, MIT.
- Analysis of SLD data using computer models, SLAC, Stanford: 1997-8 for undergraduate thesis.
- Graphical analysis of oil contamination data using a spectrometer for the MiniBoone detector, Princeton University : 1998-2000.
- Design of monte carlo for tracing reaction rays inside the Mini Boone detector, Princeton University, Research Assistant: 1999
- Use of the CERN's GEANT software to perform precision measurements in Mini Boone Detector, Reseach Assistant, 1999

TRANSFERABLE SKILLS AND ACHIEVEMENTS

Excellent Written and Verbal Communication Skills:

Published in Indexed, blind peer reviewed journal: law and physics. List available upon request.

Written and Verbal Skills:

Writer with stories published in online and print media in the US, UK, India etc.

Publication list <http://fshafee.wixsite.com/farielsart>

Currently a reader for Black hare Press, Australia.

Former national level debating medalist in Bangladesh.

Teaching experience as teaching assistant at MIT and Princeton. Also taught at Brookline Adult Education Center. USA

Teaching Certification:

150 hour TESOL certification from Arizona State University to teach English as a second language, 2024 [portfolio](#):

https://drive.google.com/drive/folders/1bCXM_o7GaJDky1o4KV7NIErQKtwajEb3?usp=sharing

Languages: Bilingual in English and Bengali. Basic knowledge in Spanish.

BUSINESS EXPERIENCES

Former designer and marketer for a clothing line. Exhibited in Young Designer's show in fifth avenue in NYC and in the official San Francisco Fashion week boutique, San Francisco. Sold in NYC, including in SoHo. Conducted market research and collaborated with photographers and models:

<http://smriti10.tripod.com>

Also, ran a store in Dhaka, Bangladesh to sell fashion merchandise.