Hossein Farahnaki

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PROFILE

I am a final year Electrical Engineering student at Sharif University of Technology, minoring in Economics, and currently a Business Analyst Intern at Digikala. I chose engineering to build analytical and problem solving skills for a career in business and management. Passionate about management consulting, strategy, and leadership, I aspire to join MBB or eventually become a C-level executive, leading teams toward ambitious goals. I plan to pursue an MBA to further develop my management skills.

EDUCATION

Sharif University of Technology *2022 – Present*
Bachelor of Electrical Engineering, Minor in Economics
- Served as a Teaching Assistant for Microeconomics, System Dynamics, and other Electrical Engineering courses.
- Conducted research on online businesses, collecting data and interviewing business owners.
- Served as Vice Secretary of the Student Guild Council

Allameh Helli 1 High School , **Mathematics and Physics Diploma** *2019 – 2022*
- Earned my Mathematics and Physics Diploma. Participated in the Astronomy Olympiad.

PROFESSIONAL EXPERIENCE

Digikala, Business Analyst Intern *2026-08 – Present*
- Developed sales and order forecasting models, P&L forecasts, budget models, and interactive scenario analysis tools to assess revenue, costs, and profitability.
- Contributed to Digikala's three-year growth vision through international e-commerce benchmarking, market research, and strategic analysis.

Organization for Investment, Economic and Technical Assistance of Iran , **Financial Analyst** *2026-01 – 2026-06*
- Prepared financial feasibility studies and investment models for industrial and energy projects, including cash flow forecasts, NPV, and IRR analysis.
- Developed investment reports and management presentations, translating technical and financial findings for potential investors.

Astronomy Olympiad Instructor & Program Lead *2022 – 2026*
I lead and coordinate the Astronomy Olympiad program across top schools in Tehran, including Atomic Energy, Allameh Helli 1, Alborz, and Allameh Tabatabai. I design the curriculum, schedule and run the classes, and teach data analysis and quantitative topics.

Sabancı University, Research Intern — PURE Program *2026-07 – 2026-09*
- Contributed to an accelerometer-based cattle behavior classification system using a BiGRU model for low-power edge applications.
- Worked on feature engineering, fixed-point quantization, FPGA-oriented model optimization, and Verilog RTL implementation.

The Chinese University of Hong Kong, Vessel Segmentation Research *2025 – 2026*
- Collaborated with researchers at CUHK on uncertainty-aware vessel segmentation in endoscopic images, contributing to data preparation and model evaluation.
- Co-authored a journal paper on the resulting medical image segmentation framework, published in 2026.

Tsinghua University , **Summer Internship** *2025-06 – 2025-09*
- Refactored SQLite's pager into modular C++ classes under the supervision of Prof. Chao Li.
- Developed tests and a demonstration using CMake, GoogleTest, and IoT time-series data with an in-memory design.

Independent Trader *2021 – Present*
- Researched and traded cryptocurrency, forex, and DeFi markets, managing a personal investment portfolio through market analysis and risk management strategies.

SKILLS

Business & Finance
Financial Modeling, P&L Forecasting, Business Forecasting, Market Research, Competitive Benchmarking

Technical & Analytical
Python, C++, Java ,SQL, Microsoft Excel, R/Stata, Statistical Modeling, Machine Learning and Deep Learning

CERTIFICATES

Financial Markets Course
Completed an online course on Financial Markets taught by Nobel Laureate *Robert J. Shiller*, covering risk management, market dynamics, and behavioral finance.

Quera Product Management Bootcamp
Completed a Product Management Bootcamp at Quera, focused on product fundamentals, market analysis, agile delivery, and leadership.

PROJECTS

Machine Learning Model for EMG Signal Recognition *2024 – 2025*
- Developed a machine learning pipeline for classifying hand movements from EMG signals, including signal preprocessing and feature extraction.
- Compared KNN, LDA, Random Forest, and SVM classifiers for movement recognition.

Polyp Detection Project with Deep Learning *2024*
- Developed a deep learning pipeline for polyp detection using a dataset of 4,000 colon images, focusing on image preprocessing, model training, and evaluation.

AWARDS

Silver Medal, Astronomy and Astrophysics Olympiad *2021*

Bronze Medal, Astronomy and Astrophysics Olympiad *2020*

INTERESTS

Technology & Gadgets: Following tech and AI trends, phones, and laptops; I run laptop workshops and I'm the go-to person among friends for tech advice. •
Chess • **Piano** • **Table Tennis**