# Babäk Firoozi Fooladi

LinkedIn | GitHub | StackOverFlow

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# Data Analytics Engineer | Data visualisation | Data Scientist

Data analytics professional with a strong background in data engineering, statistical modeling, and visualization. Experienced in designing data pipelines, optimizing SQL queries, and creating reports and dashboards. Eager to apply my skills in a collaborative environment and learn new technologies to turn data into actionable insights that drive business value.

## **Soft Skills**

Team work: **Accounting:**  ••• ••000

**Self-organised** Quality control:

**Project management Visual communication:** 

## **Technical Skills**

Visio:

Python: **AZURE:** PostgreSQL: **PowerPoint:** 

R: **Econometric: SQLite:** Excel:

PowerBI:

Julia: Data Viz.: **DuckDB: Outlook:** Tableau:

SQL: Spatial data: MongoDB: Word:

Git:

# **Experience**

### **DATA ANALYTIC ENGINEERING**

Self-Employed | Apex-Heat - Startup

Jan 2025 - Present Part-time - Espoo, Finland

- · Resolving technical debt.
- Consulting the implementation of Generative AI.
- Migrating from **Pandas** to **Polars** to improve the efficiency and calculation time.
- Improving the design pattern, and writing documentations.
- Adjusting an improving data processing test coverage and testing methods.
- Optimising the SQL queries to improve response time.

Ph.D. Candidate

**Aalto University** 

Sep 2020 - Dec 2024 Full-time - Espoo, Finland

- Applying Econometric, ML and data analysis for quantitative research.
- Designed and deployed database in PostgreSQL and DuckDB data lake for research data in our team.
- Preparing and updating **visualisations** for lecture and presentation.
- Performing time-to-event statistical modelling for my research using parametric, semi-parametric and non-parametric models. These models include longitudinal data, repeating event, multi-state and joint models.
- Experienced in preparing datasets for event history analysis.
- Deploying and maintaining AZURE functions to store real estate data for research. Scrapping websites for property advertisements.
- Self-taught programming skills, and further obtained formal education in data science.

**Data Analytics Engineer** 

Sep 2020 - Dec 2024

Qissa kaupunkisuunnitteluanalytiikka Oy – Startup

Part-time - Espoo, Finland

- Designing data pipeline to gather data form REST APIs, cleaning, Geo-coding and storing in accordance to the specifications requested by clients
- Creating Spatial data dashboard for spatial network analysis back-end. The analysis used HSL, HERE and HSY APIs to gather and process the data and perform network analysis.

**Planning Assistant** 

WSP Finland Oy

Nov 2018 - Jun 2021 Part-time – Helsinki, Finland

- Performing Spatial Data analysis, Processing and storing spatial.
- Performing network analysis for pedestrian route choice forecast. The analysis was fine tuned to existing situation, and then used to forecast pedestrian flow after urban development
- Preparing analysis, graphs, maps and data visualisations for stakeholders, projects managers and clients.
- Providing GIS analysis to transport engineers, landscape designers, urban planners and architects.
- Programming and producing dynamic 3D model of the cities using ESRI CityEngine

**GIS Operator** 

Aug 2015 - May 2016 Part-time, Tehran, Iran

University of Tehran

· Gathering, processing and preparing GIS data for urban designers to implement and test new directives for urban design in Tehran City

**Chief Operating Officer** 

Aug 2011 - Aug 2018 Airsa Dorsa Industries Full-time, Karaj, Iran

- · Accounting, cost calculation, financial analysis, human resources and BI
- Provided in house graphic design, CAD and technical solutions for clients.
- Negotiating with the clients regarding their designs, pricing and production.
- Managing timelines of production, maintenance and order delivery.
- · Admin duties, supervision duties, high-frequency welding, silk screen printing.

#### **Education**

**Aalto University** 

Espoo, Finland

Doctor of Philosophy in Technology, Real Estate Economics

Sep 2020 - Present

**Aalto University** 

Espoo, Finland Sep 2018 - Jul 2020

MSc. (Tech.) Urban Studies and Planning in Real Estate Economics

Tehran, Iran

**University of Tehran** BA. Town Planning

Sep 2011 - Jun 2015

Machine Learning | Statistical models | Econometrics

**Uni-variate time-series:** ●●●○○ multi-variate time-series: ●●●○○

**VAR time-series:** ●●●○○ **Co-integration time-series:** ●●○○○

longitudinal data: ●●●○

Panel data: ••• • Generalised Method of Moments: ••• • Survival/time-to-event: ●●●●

**IV-OLS:** ●●●●○ Generalised linear models: ●●○○○ Additive hazard models: ••••

# **Volunteer Work**

- DataTribe collective moderator, contributor
- DataTribe collective speaker: Spatial data analysis, spatial data engineering
- · Helsinki Data Week volunteer, contributor