



# David Gadyan

## Data Scientist

Self-motivated and enthusiastic MBA graduate currently freelancing as an EXPERT-VETTED Data Scientist on UPWORK, specializing in machine learning, deep learning, computer vision, web scraping, data engineering, web development and data visualizations. Diverse background in Finance, Business Administration and Data Science provides a competitive mixture of both technical and analytical skills.



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## WORK EXPERIENCE

### Freelancer | Expert-Vetted Data Scientist UPWORK

01/2018 - Present

Yerevan, Armenia

#### Responsibilities

- Advising the business on the potential of data
- Working with clients to identify opportunities for leveraging the data to drive business solutions
- Through the use of advanced statistical analysis, data mining, and data visualization techniques creating solutions that enable enhanced business performance

*Achievements:* 100+ projects, "Expert-Vetted Data Scientist" badge

### Tax Accountant Ernst & Young (EY)

10/2017 - 05/2018

Yerevan, Armenia

#### Responsibilities:

- Focusing on tax consulting, tax accounting and tax compliance as well as assisting with internal control deficiencies
- Providing audit support for tax provision reviews and tax provision preparation
- Working on tax compliance process, including review of tax returns and tax projections throughout the year

### SENIOR ACCOUNTANT "CAPITAL" CJSC

03/2016 - 10/2017

Stepanakert, Armenia

#### Responsibilities:

- Preparing financial and tax statements
- Analyzing financial performance and identifying methods to improve processes in place
- Conducting financial forecasting and risk analysis

### SENIOR ACCOUNTANT "BARI HOGI" LTD

07/2015 - 02/2016

Stepanakert, Armenia

#### Responsibilities:

- Preparing financial and tax statements
- Keeping account books and systems up to date and analyzing financial performance
- Organizing the flow of materials



## GENERAL SKILLS

Data Science

Machine Learning

Deep Learning

Computer Vision

Interactive Dashboards

Recommender Systems

MLOps/DevOps

Statistical Analysis

Financial Engineering

Optical Character Recognition

Process Automation

Web Scraping / Crawling



## TECHNICAL SKILLS

#### Operating Systems:

Linux, MacOS, Windows

#### Programming:

Python, R, SQL, Git, Shell, Cloud, Spark

#### Other Tools/Software:

Data Engineering (MySQL, MongoDB), DevOps (model depl. on cloud, TDD, AWS, GCP, Docker), OCR, NLP (Bert, fastText), CNN (LeNet, AlexNet, VGG16/19, InceptionV3, ResNet50), Object Detection (R-CNN, SSD, YOLO, TFOD API), Image Segmentation (Mask R-CNN), REST API

## WORK EXPERIENCE

### Mandatory Military Service Republic of Armenia

12/2010 - 12/2012

## PERSONAL PROJECTS

#### AI-powered Web Crawler

- I have created a Scrapy crawler, which is a piece of software extracting predefined fields from website, with Recurrent Neural Network as a decision-maker to find those fields. The purpose of the crawler was to extract employees of private equity firms.
- The main reason behind using AI model is the absence of "xpath-based" ways to extract the information as each website has its own unique html structure. Thus, more flexible approach was required where I combined skills of web scraping and Deep Learning. This product was actually deployed and created value for the client.

#### Recommender System for Matchmaking Website

- Client needed to improve user experience and asked to create recommender engine, which will try to create couples by suggesting matches for men and women. Those suggestions for 'best match' were based on hybrid recommender system consisting of rule-based, collaborative-based and content-based filters.
- The power of having good recommendations comes from having above 3 layers, which segregate 'best matches' at each step and choose person with the highest probability of successful match.

#### Automated Clustering System

- This project involved creation of both Backend and Frontend for complex interactive Dash application with standard and custom clustering algorithms based on client's specifications.
- The idea was to have a tool, where user uploads some data and using dropdowns and input bars, chooses clustering methods, features to conduct feature selection, dimensionality reduction, clustering and other analytical steps. User can also download results as csv or excel formatted file for future analysis and modeling.

For more projects see my UPWORK profile. [↗](#)

## EDUCATION

### MBA for Professionals American University of Armenia

09/2017 - 06/2020

Yerevan, Armenia

GPA and Relevant Courses

- GPA: 3.7/4
- Courses: Deep Learning, Database Systems, Image Processing, Probability and Statistics, Data Mining for Business, Machine Learning, Advanced Topics in Data Analysis, Data Science, Business Intelligence, Data Analysis for Business Decisions

### Bachelor's degree of Economics Artsakh State University

09/2009 - 05/2015

Stepanakert, Armenia

GPA and Relevant Courses:

- GPA: 3/4
- Courses: Theory of Probability and Mathematical Statistics, Theory of Economics, Economic and Mathematical Models, Economic Activity Analysis, Investment Financing

## LANGUAGES

English  
Full Professional Proficiency

Armenian  
Native or Bilingual Proficiency

Russian  
Native or Bilingual Proficiency

## INTERESTS

Reading

Artificial Intelligence

Computer Gaming

Sports

Robotics