

Delft, The Netherlands
Professional Experience: 8 yrs
EU Work-permit: yes
Work Style: Freelancing

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Dr. Bijan Ranjbar

Freelance Data Scientist and Machine Learning Expert

PERSONAL SUMMARY

I'm a pragmatic and interdisciplinary data scientist, with extensive experience in Cloud Technologies, Deep learning and Big Data. I never get trapped by complexity or abundance of data. I am excellent in both understanding the needs of project stakeholders and communicating within my team.

EXPERIENCE AND EDUCATIONAL QUALIFICATION

March 2020 - up to now The Netherlands
Freelance Data Scientist
Focus of work: *Deep Learning, NLP, Information Retrieval*

November 2018 - February 2020 Exact, The Netherlands
Data Scientist
Focus of work: *Deep Learning, Spark-based ETL pipelines, AWS Services*

October 2017 - October 2018 Center for Science and Technology Studies,
Leiden University, The Netherlands
Data Scientist
Focus of work: *SQL database administration and productizing large scale ETL pipelines*

April 2016 - September 2017 TU Delft, The Netherlands
Postdoc Researcher at Faculty 3ME
Research Topic: *Automatic Identification of Research Trends - ETL, Complex Network Analysis, Visualization*

April 2012 - March 2016 Maastricht University, The Netherlands
PhD Candidate at Department of Data Science
Thesis Title: *Dynamic Social Graphs - Mining and Modeling*

Sept 2008 - Jan 2011 Shiraz University, Shiraz, Iran
Master of Science in Control Engineering
Thesis Title: *Swarm Formation Control of Multi-Agent Systems*

PORTFOLIO

- **rixai.ai** - I have built RIXAI to address the Research Intelligence needs of Dutch Policy Makers w.r.t. COVID-19. RIXAI uses Language Models and AutoEncoders in the back-end and D3js and Vue.js in the front-end.
- **Text Categorization** - At Exact, I have used Word Embeddings and LSTM Models for categorizing Bank Transactions into standard RGS codes. The model has been productized using the Sagemaker service of AWS.
- **Data Lake Creation** - At Exact, I have used Spark and the EMR clusters of AWS to build a Data Lake for the Data Science center. The pipeline that I've designed processes Terabytes of data every week to keep the data lake up to date.
- **Research Intelligence** - At TU Delft, I carried out more than 50 Research Intelligence case studies for different faculties and departments of the university. I used web scrapping, data analytics and graph visualization to deliver the insights to end-users.

PROFESSIONAL SKILLS

- **AWS:** Sagemaker, ECR, EMR, Glue, Lambda, EC2
- **NLP:** BERT, Word2Vec/GloVe, HuggingFace
- **Deep Learning:** Optimization of Deep-NN, RNN, LSTM, Attention Mechanism, Auto-Encoders
- **Machine Learning:** Predictive Analytics, Time Series Forecasting, Entity Recognition
- **Data Lake Development:** ETL, Spark, (No)SQL databases
- **Programming Languages:** Python, R, TSQL, Java, Javascript

CERTIFICATIONS

- **Sequence Models** - by deeplearning.ai on Coursera
- **Neural Networks and Deep Learning** - by deeplearning.ai on Coursera
- **Improving Deep Neural Networks** - by deeplearning.ai on Coursera
- **Practical Machine Learning** - by Johns Hopkins University on Coursera
- **Complex Networks** - by Universit Ca' Foscari Venezia
- **Social Network Analysis** - by University of Michigan on Coursera
- **Human-Computer Interaction** - by University of California on Coursera

ACADEMIC PUBLICATIONS

Google Scholar Page:
<https://scholar.google.nl/citations?hl=en&user=kCRb080AAAAJ>

PERSONAL DETAILS

Year of Birth: 1986
Languages: English (fluent), Dutch (elementary), Farsi (mother tongue)
Hobbies: Crossfit, Painting, Socializing