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# Hossein Kalbasi

## Data Scientist / Data Engineer

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I am an experienced Data Scientist with Engineering and System Management background; an initiator with entrepreneurial spirit and experience in mentoring and team leadership

### SKILLS

<b>Data Science</b>	Scikit-Learn, TensorFlow, PyTorch, Scipy, Statsmodel, Elasticsearch, Vertex AI
<b>Programming</b>	Python, Java, JavaScript, Bash
<b>Web</b>	FastAPI, Flask, Django, React, GatsbyJS
<b>Database</b>	MongoDB, PostgreSQL, MySQL, MSSQL, BigQuery
<b>IDE</b>	PyCharm, VS Code, Jupyter Lab, Spyder
<b>Platform</b>	Linux, Windows, Docker, Kubernetes, GCP, AWS
<b>Big Data</b>	Spark, Hadoop, Dask, Kafka, BigQuery
<b>Tools</b>	Git, $\LaTeX$

### TECHNICAL EXPERIENCE

**Data Scientist** **12 2021 — Present**  
*Concured* *Montreal, QC*

- Planner and organizer of bi-weekly content recommendation systems meetings
- Planner and organizer of bi-weekly Lunch & Learn company-wide meeting
- Working on dynamic recommendation systems using session-based and sequential-based Deep Learning algorithms
- Designing and developing recommendation API serving multiple models for different scenarios and executing A/B testing per configurations
- Designing and developing an automatic system to identify product failures using log analysis and machine learning techniques, deployed using Cloud Run, Big Query, and Google Data Studio

**Data Science Instructor** **12 2020 — Present**  
*GreatLearning (freelancer)* *Toronto, Ontario*

- Have taught 300+ North American learners so far (4.75 overall rating by learners)
- Teach AI programs developed by the University of Texas at Austin

**Data Engineer** **03 2021 — 12 2021**  
*Concured* *Montreal, QC*

- Develop and maintain streaming data pipelines for the product. Example: fetching social engagement metrics (such as Twitter, Facebook, LinkedIn, and Google Analytics) for crawled documents - hands-on with Python and Mongo Atlas
- Design and develop client-facing search engine – Hands-on with Python, Elasticsearch, and Kibana

**Data Engineer/Architect** **01 2019 — 03 2021**  
*ReactiveCore* *Montreal, QC*

- Work with stakeholders to identify opportunities for leveraging data to drive business solutions
- Analyze data of healthcare providers and enable intelligent decision-making using proprietary AI rule-based decision making
- Lead build and release structure and apply DevOps principles to improve team agility
- Integrate Jupyterlab with ReactiveCore big data stack, enhancing Data Science capabilities using Graph-based and Ontology-based approaches

**Data Engineer** **12 2017 — 01 2019**  
*JITbase* *Montreal, QC*

- Develop IIoT (Industrial Internet of Things) adapters for collecting and cleansing the data fetched from industrial machines using machines' serial ports and custom manuals
- Predictive maintenance of the shop floor using machine learning techniques

### EDUCATION

**Master of Applied Science in Industrial Engineering and Information Systems**, *Concordia University - Faculty of Engineering and Computer Science* 2016 — 2019  
**Bachelor of Science in System Management**, *Isfahan University of Technology* 2012 — 2016  
**Bachelor of Science in Mechanical Engineering (Manufacturing)**, *Isfahan University of Technology* 2011 — 2014

### US PATENTS

U.S. Patent US10636555B2: "Articulated Video Probe with Magnetic Stimulation", GRANTED

April 2020