Ghazale Behboud

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Summary

Dynamic and motivated software developer engineer with MASc degree. Passionate about data science and machine learning, with strong technical and interpersonal skills.

Skills

- Programming Languages: Python, Java, Java Script, C, C++, Groovy, Matlab, SQL, Objective-C, Swift

- ML/DL Frameworks: Pythia, Pytorch, Keras, Tensorflow, Caffe

- Tools and Software Skills: AWS SageMaker, Pentaho, Git, LibMuse API, Xcode, Tableau, Splunk , AWS Athena, ODS, AWS S3, AWS EC2, Docker, AWS Kinesis

- Others: Knowledge of Agile and Scrum development methodology, Problem solving, Quick learner, Passionate in learning new technologies, Strong communications skill, Writing about data science on Medium and Towards Data Science

Experience

- **Realtor.com** Richmond, BC
  Software Developer *May 2019 - Present*
  - Realtor.com operates a real estate portal, serving 5.5 million unique daily visitors, as well as other real estate consumer websites, like Doorsteps.com and Moving.com.
  - As a software developer in the Data Aggregation team, I was responsible for aggregating real estate listings from 1000+ external data providers in real-time and transforming them into a highly normalized and search-able data-set to power Realtor.com core experience.
  - Reduced time spent on data cleaning by 20% by creating Multi-nominal Naive Bayes Classifier
  - Increased data insight by 80% by implementing Anomaly Detection System Using ML
  - Designed and developed a new method for Property Image Tagging using DL and AWS Sage-Maker
  - Researched and proposed the idea of Automating Data Integration Using ML
  - Monitored operational efficiency of data collection using Splunk reports, dashboards and logs. Took corrective actions to minimize interruptions in data updates.

- **Noratek Solutions** Prince George, BC
  Software Developer(Co-op Student) *Jan. 2019 - Apr. 2019*
  - Developed Grails applications
  - Developed jquery/Kendo UI and leaflet based applications
  - Developed Flex applications

- **University of Victoria** Victoria, BC
  Research Assistant *Sept. 2017 - Present*
  - Developed a Visual Question Answering Model Using Deep leaning methods such as AB-CNN (Attention-Based Convolutional Neural Network) and SAB-LSTM (Self Attention-Based Long short-term memory)
  - Build a system that can answer natural language questions about any images using PyTorch Framework
  - Utilized Graphics Processing Units (GPUs) to accelerate the training process

Neuroeconomics Laboratory at University of Victoria Victoria, BC
iOS Developer *Jan. 2017 - June. 2017*
- Developed a Brain Sensing iOS Application using MUSE headband
- Worked with LibMuse API
- Implemented Neuroscience Experimental Games using Objective-C

University of Victoria Victoria, BC
Teaching Assistant *Sept. 2016 - Dec. 2019*
- TA for ELEC250, ELEC255 Laboratory, BME335 and ENGR120 Laboratory
- Helped students to work with lab equipment and software
- Assisted students debug their programs
- Used innovative ways to help students visualize electronic circuits

PNR Screens Victoria, BC
Office Administrator *Jul. 2017 - Oct. 2017*
- Converted Record Keeping System from Paper-Based to Electronic
- Optimized the process of collecting, organizing and managing orders and invoices
- Handled more than 50 customer service calls per day

Notable Projects

Naive Bayes Classifier Realtor.com
Classifying Property Listings *Apr. 2020*
- Trained and tested Multi-nominal Naive Bayes Classifier on property listing data
- Implemented a demo using Amazon Sage-Maker Experiments

Automating Data Integration Using Machine Learning Realtor.com
Research *Jan. 2020*
- Performed detailed analysis on Natural Language Processing tasks used for Data Automation
- Prepared key presentations and recommendations for Data Aggregation Management

Visual Search Realtor.com
Hacking Project *Nov. 2019*
- Led a team of five developers to implement demo
- In eight hours, we came up with the design and finished the 80% implementation of functionalities
- Pitched the basic idea of our innovation
- Technologies used: Amazon Elastic-search, Amazon Sage-Maker and Amazon Lambda

Anomaly Detection Using Isolation Forest Algorithm Realtor.com
Improving Data Correctness *Aug. 2019*
- Detect anomalies on Property Listing Data Using Unsupervised ML Technique
- Applied Feature Engineering to improve the performance of algorithm

Education

University of Victoria Victoria, BC
MASc Computer Engineering , GPA: A *Sept 2016*
- Uvic Graduate Award
- Best Teacher Assistant based on evaluations

Karaj Islamic Azad University Karaj, Iran
BSc Electrical Engineering *Sept. 2010*
- Relevant courses: Computer Programming 20 (out of 20), Signals and Systems 20 (out of 20), Special Topics on Electronics(FPGA) 19 (out of 20), Microprocessor Lab. 20 (out of 20)