

Ali Hejazizo

ML/NLP Engineer

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HIGHLIGHTS


- Machine Learning Engineer with 5+ years of professional experience in design, development, and deployment of machine learning pipelines.
- Highly experienced in Natural Language Processing with 5+ years of research and industrial experience.
- Lead technical engagement with clients in presenting machine learning models and exploratory data analysis results.
- Team-player with strong communication and leadership skills.
- Founder of ApplyFund startup in 2019 that facilitates connecting brilliant students and donors, collecting over 20k CAD in the first year to help students financially.
- Mentor to Machine Learning Developers to help with their career goals with 3+ years of teaching experience in Python, Machine Learning, Deep Learning, Statistics, Linux, Git, etc. and 100+ students.

EDUCATION

- **Master of Science** May, 2016–Present
 *University of Alberta* Edmonton-Canada
- Computer Science May, 2017–December 2020

WORK EXPERIENCE

-  **AltaML** May 2018–present
Machine Learning Engineer
3+ years in development and deployment of machine learning algorithms:
 - Natural Language Processing
 - Chatbots
 - A project leading to two chatbot products between AltaML and clients.
 - A very simple showcase of the chatbot is deployed in my personal homepage.
 - Question answering on insurance text data to identify faults and missing fields in forms filled by customers.
 - Text classification
 - Entity extraction
 - Spelling correction
 - Sentiment Analysis
 - Financial transactional data analysis with ATB bank to analyse account usage and recommends ATB products.
 - Developed several machine learning models (with over 90% accuracy) to detect the account usage and suggest users to switch from a Business/Personal/... account to other suitable accounts types.
 - Lead to partnership with ATB for a \$3.25 million investment over 3 years for 240 interns.
 - Medical data lung cancer survival analysis using RNA sequence data.
 - The most profitable project in AltaML history at its time.






- Recommendation systems that suggest relevant items to user in filling forms with insurance companies. The project included development of several recommendation engines to help users while filling claim forms.
- Financial donation data analysis to identify and predict big donors with Alberta University Hospital Foundation (UHF).
- Cancer type classification and prediction using RNA sequence data.
- COVID recovery prediction based on users medical tests data.
-  University of Alberta 2016-2020
 AI Research Scientist
 - Paraphrase Generation by Variational Autoencoders and Metropolis–Hastings Sampling
 - Developed an unsupervised paraphrasing technique trained on SNLI and Quora dataset, introducing novel phrase-level paraphrasing technique with Variational Autoencoders.
 - Mapping Macroscopic Brain Connectomes via Multidimensional Encoding, Learning, and Optimization using dMRI brain images.
 - A project between University of Alberta and University of Indiana University
 - Mapping connectomes for the arcuate fasciculus, using extremely high-dimensional sparse tensors.
 - Loading data and visualization in Matlab
 - Encoding, learning, and optimization in C with GPU parallel computing.
 - Supervisor: Dr. Martha White
 - Diagnosis of Alzheimer's Disease Based on Structural MRI Images using Machine Learning Techniques.
 - Step 1: Preprocessing MRI images using Freesurfer tools.
 - Step 2: Feature extraction.
 - Step 3: Applying machine learning techniques for diagnosis task.
 - Supervisor: Dr. Jörg Sander

SKILLS










Programming/Scripting

-  Python
 - Tensorflow
 - PyTorch
 - Sklearn
 - Gensim
 - NLTK
 - Pandas
 - NumPy
 - RASA
-  MySQL
 -  SQLite
 - MongoDB
 - SPARQL
 - C/C++
 - CUDA
 - cuBLAS
 - cuSparse
 - Django
 - HTML5/CSS3/Bootstrap/JavaScript







Cloud/MLOps

-  AWS (EC2, S3, Lambda, SageMaker)
 -  Azure
-  GCP
 -  Google Big Query
 -  Docker








Certificates

-  Complete Guide to TensorFlow for Deep Learning with Python
-  Complete Tensorflow 2 and Keras Deep Learning Bootcamp
-  PyTorch for Deep Learning with Python Bootcamp
-  Docker Mastery: with Kubernetes +Swarm
-  from a Docker Captain
-  Docker and Kubernetes: The Complete Guide
-  Complete Python Bootcamp: Go from zero to hero in Python 3
-  Python Beyond the Basics - Object-Oriented Programming
-  Data Analysis Course with Pandas : Hands on

Pandas, Python

-  Data Analysis with Pandas and Python
-  Linux Mastery: Master the Linux Command Line in 11.5 Hours
-  Linux Administration Bootcamp: Go from Beginner to Advanced
-  The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert
-  Machine Learning
-  Python and Django Full Stack Web Developer

Bootcamp

-  Python for Everybody Specialization
-  Parallel Programming using GPGPU and CUDA
-  The Data Scientist's Toolbox
-  Introduction to HTML5
-  Introduction to CSS3
-  Interactivity with JavaScript
-  Git Complete