Reza Pourrahim

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Education

September 2018 – Present	**M.Sc. in Data Science,** Information Engineering, Computer Science and Statistics Faculty, **Sapienza University,** Rome, Italy
September 2011 - July 2016	**B.Sc. in Computer Engineering,** Computer Engineering and Science Faculty, **Shahid Beheshti University**, Tehran, Iran. Dissertation: Group Constraints Clustering based on Ensemble Learning
September 2007 - July 2011	High-school Diploma in Mathematics and Physics, Allame Jafari High School, Ghazvin, Iran GPA: 19.56/20

Work Experiences

December 2020 – Present	**KDD Lab – CNR** - Thesis internship - X-Bot: Development of a Model and Data Agnostic Chat Bot for Explaining the Decisions of Black Box Classifiers
October 2016 – July 2018	**Namaad Arya Co.** - Project Manager and Full Stack Developer - Programming Languages: Python, JavaScript, CSS, XML - Using Odoo as Open Source ERP and CRM
December 2015 – April 2016	**WegoBazaar Co.** - Web Developer - Implementing E-Commerce website: wegobazaar.com - Programming Languages: PHP, Laravel
2015 Summer	**Namaad Iran Co.** - Internship – Web Developing

Languages

- English: C1, Italian: A1, Persian(Farsi): Native

Skills and Tools

Programming Languages:

- Programming Language: Python, R, PHP, C++, C#, Java
- Web Programming: HTML, CSS, JavaScript

Frameworks and Tools:

- Machine Learning Frameworks: PyTorch, TensorFlow, Scikit-Learn, Weka
- MATLAB (Optimization, Statistics and Machine Learning)
- Special Library: Pandas, Scipy, Numpy, NLTK
- Statistical Software: Rstudio, SAS
- Frameworks: Laravel
- DBMSs: Microsoft SQL Server, MySQL, MongoDB, PostgreSQL
- IDE: Eclipse, PyCharm, Spyder, Jupyter, Microsoft Visual Studio, IntelliJ IDEA
- OS: Linux Ubuntu, Windows
- General Software: Microsoft Office, LaTeX, Excel
- Open ERP: Odoo
- Remote Software: X2Go, PuTTY

Industry Knowledge:
- Object-Oriented Programming (OOP)
- Project Management

Projects

- Graph Neural Network for Directed Labeled Graph, Implementing Graph and Node Classification Tasks on Mutag Dataset (DGL, Pytorch, Google Colab, MPNN)
- Implement a Convolutional Neural Network to Perform Image Classification and Explore Methods to Improve the Training Performance (PyTorch)
- Bayesian Inference with JAGS (R, RStudio, Markov Chain Monte Carlo (MCMC))
- Differential Analysis of Gene Expression (Python, Matlab, The Cancer Genome Atlas)
- Tweet Sentiment Extraction with Fine-tuning Base Language Models Bert and Roberta (Pytorch, GPU)
- Exploratory Approach for Network Behavior Clustering in LoRaWAN (Python, Jupyter Notebook, Pandas, Numpy, Scikit-Learn)
- Group Constraints Clustering based on Ensemble Learning (Matlab)
- Implement a Simple Two-layer Neural Network and its Training Algorithm based on Back-propagation using only Basic Matrix Operations (PyTorch, CIFAR-10)
- Image Filtering and Object Identification (NumPy, Pandas, Jupyter Notebook)
- Design and Implement a High Available and Scalable Virtual Architecture using AWS IaaS Service (Amazon)
- Implementation of ERP system for the Biggest Mall in the Middle East, IRAN MALL, imcc.ir (Python, Odoo)
- Clustering Analysis of House Announcements in Rome (Web Scraping, Clustering)
- Statistical Data Quality Analysis of European HEIs Using ETER Database (Python)
- An Analysis of Taxis in NYC, Planning their Movements (Python, Jupyter Notebook)