Pouya Ghahramanian

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Education

Ph.D. in Computer Engineering | ***Bilkent** University, Ankara, Turkey* 2022 - Present

M.Sc. in Computer Engineering | ***Bilkent** University, Ankara, Turkey* 2019 - 2022

B.Sc. in Computer Engineering | *Iran University of Science and Technology (**Elm-O-Sanat**), Tehran, Iran* 2013 - 2018

Technical Skills

Languages Python, Java, C#, C++, Visual Basic, SQL, HTML/CSS, JavaScript

Technologies/Frameworks Pytorch, Tensorflow, Keras, Scikit-learn, Linux, GitHub, Docker

Developer Tools Atom, VS Code, Eclipse, Android Studio, Unity Game Engine

Experience

Data Mining Researcher | ***TÜBİTAK** (grant no. 117E870, 120E103), Ankara, Turkey* April 2019 – Present

- Developed machine learning and deep neural models for data stream mining.

Teaching Assistant | ***Bilkent** University, Ankara, Turkey* February 2019 – June 2022

- TA for the courses: Algorithms and Programming II (2019), Information Retrieval (2020), Computer Organization (2020-2022).

Android Developer Intern | ***Petanux GmbH**, Bonn, Germany* June 2018 – Sep. 2018

- Worked on developing an Android application for an online store to find the lowest price of products.

Teaching Assistant | ***IUST**, Tehran, Iran* Sep. 2017 – April 2018

- Teaching Assistant for the course "Fundamentals of database design", Dr. Eisa Zarepour at Elm-O-Sanat.

C#.NET WPF Developer | ***Azar-Tarh**, Tehran, Iran* June 2017 – Oct. 2017

- Worked on the design of a Windows application for a car diagnostics tool.

C#.NET and SQL Developer | ***Shams Group**, Bonab, Iran* April 2016 – Feb. 2017

- Developed a clinic management system.

Relevant Courses and Projects

Deep Generative Networks, Implemented generative adversarial network models (GANs) for various image synthesis tasks.

Statistical Foundations of Natural Language Processing, Developed classical machine learning methods and state-of-the-art deep neural network models for text classification.

Deep Learning, Implemented state-of-the-art deep neural network models for image and text classification tasks.

Bachelor's Final Project: Driver Drowsiness Detection System, Designed and implemented a real-time drowsiness detection system using Raspberry Pi 3. Employed machine learning for facial recognition and eye state detection, achieving 95% detection accuracy.

Publications

Ghahramanian, P., Bakhshi, S., Bonab, H., Can, F. (2023). Headlines Ahead of Time: A Neural Network's Insight into Predicting Trending Articles in News Streams, Submitted to CIKM '23, Under review process

Ghahramanian, P., Bakhshi, S., Bonab, H., Can, F. (2022). A Novel Neural Ensemble Architecture for On-The-Fly Classification of Evolving Text Streams, Submitted to ACM TKDD, September 2022, Under review process

Ghahramanian, P., (2022). Evolving Text Stream Classification with a Novel Neural Ensemble Architecture, Master's Thesis

Bakhshi, S., **Ghahramanian, P.,** Bonab, H., Can, F. (2023). Minimally Supervised Self-Training Classification for Evolving Data Streams, Submitted to CIKM '23, Under review process

Bakhshi, S., **Ghahramanian, P.,** Bonab, H., Can, F. (2023). A Novel Approach Balancing Efficiency and Effectiveness in Multi-Label Data Stream Classification, Submitted to PAKDD 2023 conference

Bakhshi, S., **Ghahramanian, P.,** Bonab, H., Can, F. (2021). A Broad Ensemble Learning System for Drifting Stream Classification. arXiv preprint arXiv:2110.03540. Arxiv link

Language Proficiency

English (Advanced, TOEFL ibt: 104), **Turkish** (Advanced), **Persian** (Native), **Azerbaijani** (Native)

Extracurricular Activities

Güneş cultural magazine owner and publications manager | *IUST, Tehran, Iran* June 2015 – June 2018

President of the tourism student club | *IUST, Tehran, Iran* June 2014 – June 2015