Mahin Vazifehdan

PhD Student, University of Pavia

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PERSONAL STATEMENT -

I am a disciplined, hardworking computer engineer who loves everything about data science and machine learning. Through my work in Iran and Italy as a researcher, I have developed team working and problem-solving skills. Since I enjoy doing machine learning projects and am highly self-motivated to learn new things, I am currently a PhD student to improve in the areas of my interest.

INTEREST AREAS -

- Data Preprocessing
- **Data Collection** •
- Supervised Learning •
- Deep Learning •

EDUCATION —

• PhD of	Bioengineering, Bioinformatics and Health Technology , University of Pavia, Ital Dissertation: Multiple Sclerosis Progression Prediction	y (Nov 2022 – Present)
-	Software Computer Engineering, University of IAUM, Mashhad, Iran Thesis "Missing Value Imputation to improve Breast Cancer Recurrence Prediction using Tensor and Bayesian Network"(19.75 out of 20)	(Sep 2013 - Jul 2016) GPA: 3.90 / 4.0
• BSc of	Computer Engineering, Asrar Institute of Higher Education of Mashhad, Iran Thesis:" Design and Implementation of an Online Hotel Website by ASP. Net"	(Sep 2010 - Sep 2012) GPA : 3.48 / 4.0
• AS of C o	Computer Science, University of Birjand, Iran Thesis: "Design and Implementation of a Computer Game by Acrobat Flash"	(Sep 2008 - Sep 2010) GPA : 3.00 / 4.0
WORK EXPER		
0 0 0	ne Learning Researcher, University of Pavia, Italy Big Data Collection for <u>BrainTeaser</u> Project (An International Project for Three Big Data Preprocessing (Missing Value Imputation) Big Data Transformation (NC into CSV) Big Data Integration (Weather and Air Quality Data) ne Learning Engineer, Radinchain Company, Mashhad, Iran	(May 2022- October 2022) European Countries) (Nov 2021 – Feb 2022)
0 • Data Se 0 0	Research on Urban Traffic Management System based on Machine Learning cientist at Samen Company, Mashhad Working with SQLite in Flask for a Blockchain based project Program CRUD on Web Server with Flask Basic Image Processing with OpenCV	(Nov 2020 – Apr 2021)
● Teache √ √	er Assistant at Islamic Azad University, Ferdows Data Preprocessing (Missing Value Imputation with Prediction, Classic and Mar Predictive Modelling (Real-World Breast Cancer Prediction)	(Mar 2016 - Sep 2019) thematic Methods)
TEACHING EX	(PERIENCE	
• Lecture	er	(Sep 2017 - Jun 2019)

Islamic Azad University, Ferdows, Iran o Courses Lectured: Machine Learning



Courses Lectured: Artificial Intelligent, Machine Learning, Statistics

• Machine Learning Tutor

 \circ $\,$ $\,$ Machine Learning and Data Science to BSc. and MSc. Students.

SELECTED TRAINING COURSES -

- IBM Data Analysis with Python in Coursera
- Machine Learning by Stanford University in Coursera-Second Version (2022)
- Python for Computer Vision with OpenCV and Deep Learning
- Applied Machine Learning with Python in Coursera
- Applied Plotting, Charting & Data Representation in Python
- Programming for Everybody in Coursera (2022)
- Python for state-of-the-art Deep Learning techniques using Python (Pytorch and Pycharm) (Ferdowsi University of Mashhad)
- Matlab for Machine Learning and Data Science (Ferdowsi University of Mashhad)
- Data Science for Social Networks in ICTCK International Conference (Islamic Azad University of Mashhad)

SKILLS -

• Programming in Python

- Expert in Data Preprocessing
- o Expert in Data Collection, Feature Selection, Predictive Modelling, Data Evaluation, Data Resampling
- o Expert in Data Visualization and Data Analysis
- o Good knowledge of Deep Learning
- Good Knowledge of NLP
- Basic knowledge of AWS, Hadoop
- Python Libraries: OS, Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Missingno, OpenCV, Tensorflow, Pytorch, Keras, netCDF4, re, NLTK, Eli5
- Data Science tools: Anaconda, Jupyter Notebook, Google Colab, Weka, and Rapid Miner.
- Database tools: SQL, SQLite, SQLAlchemy
- Statistical tools: Microsoft Excel, SPSS, SAS
- Other tools: Overleaf, WordPress, HTML, CSS, ASP.Net, Visual Studio (C#.Net), VSCode

HONORS

- Ranked in the top 30% selected PhD student scholarship at the University of Pavia (6 out of 17)
- Scholarship Winner for the BrainTeaser international project for six months at the University of Pavia (2022)
- Selected for the 11th Data Challenge week (hosted by VTEC working on the project "Improve accuracy of people count by combining IR camera and other sensor parameters", Jheronimus Academy of Data Science, University of Eindhoven (TU/e), Netherlands (2021)
- Ranked in the top 10% of the Erasmus+ Scholarship for the Master of Medical Imaging program (2021)
- Getting admission in Idaho, Nevada universities in USA and VUB university in Belgium and Tilburg, Utrecht and Radboud universities in the Netherlands (2021)
- Ranked in the top 10% of the IAUM University of M.Sc. graduating class in 2016 (6 out of 102) (2016)
- Ranked in the top 5% of the Asrar Institute of Higher Education of B.Sc. graduating class (2012)
- Ranked 92nd in the Entrance University Exam of IAUM (2013)

PUBLICATIONS -

 M. Vazifehdan, M.H. Moattar, M. Jalali, A Hybrid Bayesian Network and Tensor Factorization Approach for Missing Value Imputation to Improve Breast Cancer Recurrence Prediction, Journal of King Saud University Computer and Information Sciences, Volume 31, Issue 2, April 2019, Pages 175-184 (DOI) (Impact Factor:13.473, (Ranked Q1, 33 Citations)

LANGUAGES SKILLS -

REFERENCES -

- Dr. Javad Vazifehdan, ASML Engineering Group Lead, Eindhoven, the Netherlands
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 Tel: +31 6 38108063
- Prof. Riccardo Bellazzi, Full Professor of Bioengineering and Biomedical Informatics at the University of Pavia, Italy (BrainTeaser Project Supervisor)
 Email: riccardo.bellazzi@unipv.it
- Prof. Mehrdad Jalali, Associate Professor, Institute of Nanotechnology, Karlsruhe Institute of Technology, Germany. (Second Master's Thesis Supervisor)
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- Prof. Mohammad H. Moattar, Associate Professor, Department of Computer Engineering, Islamic Azad University of Mashhad, Iran. (First Master's Thesis Supervisor)
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