Muhammad Umair Nasir

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Education

Feb 2021 | March 2023 **M.Sc in Artificial Intelligence**, *University of the Witwatersrand*, *Johannesburg, South Africa.*

Sep 2012 | Jun 2016 **B.Sc in Electronics Engineering**, *Capital University of Science and Technology*, *Islamabad, Pakistan.*

Sep 2009 | Jun 2011 **F.Sc (Grade 11 - 12) in Pre - engineering**, *Punjab College for Information and Technology*, *Multan, Pakistan.*

Sep 2007 | Jun 2009 **Matriculation (9 - 10)**, *Multan Public Schoole*, *Multan, Pakistan.*

Experience

Dec 2021 – Present **Associate Machine Learning Engineer**, *Ominor AI*, Johannesburg, South Africa.

- Apply Deep Reinforcement Learning for health tech client.
- Creating efficient data pipelines.
- Applying machine learning algorithm pipeline.

May 2021 – Nov 2021 **Data Scientist Intern**, *Aureks*, Remote.

Dec 2018 – Jan 2020 **Project Coordinator**, *Reliance Engineering Company*, Multan, Pakistan.

Aug 2017 – Oct 2018 **Telecom Integration Engineer**, *ZTE Corporation*, Islamabad, Pakistan.

Aug 2016 – Aug 2017 **Site Engineer**, *Reliance Engineering Company*, Multan, Pakistan.

Skills

Programming Languages	Python, SQL
Frameworks	Tensorflow, OpenCV, Huggingface, Nltk, Scikit-learn, Xgboost, Fbprophet, Pymongo, Neat-Python
Databases	MongoDB, MySQL
Other Skills	Data Visualization, LaTex, Microsoft Excel

Research and Projects

A Few Thousand Translations Go a Long Way! Leveraging Pre-trained Models for African News Translation, .
Accepted at NAACL 2022
https://arxiv.org/abs/2205.02022

Geographical Distance Is The New Hyperparameter: A Case Study Of Finding Optimal Pre-trained Language for English-isiZulu Machine Translation, .
Accepted at NAACL 2022 Workshop MIA.
https://arxiv.org/abs/2205.08621

Augmentative Topology Agents for Open-Ended Reinforcement Learning, *Python, Neat-Python, OpenAI gym, Box2D, Fiber*.
On-going M.Sc Thesis. Open-Ended Reinforcement Learning produces powerful agents. My work introduces agents with evolvable topologies into Open-Ended Learning through NEAT. We are modifying POET to examine the results.

Intelligent Tuning for Particle Swarm Optimization Parameters through Tabu Search, .

Using Recurrence Plots as inputs to a Convolutional Neural Network for Exoplanet Search, *Python, Tensorflow, Pyts, Scikit-learn*.

Sound Source Localizing Robot, *C++*.
Final Year Project For B.Sc.

Certifications

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, *Feb 2021*.
coursera.org

Neural Networks and Deep Learning, *Aug 2020*.
coursera.org

Machine Learning with Python, *Aug 2020*.
freeCodeCamp.org

Python Programming, *Jun 2020*.
udemy.com