

SHEHRYAR MALIK  
shehryar.malik@itu.edu.pk  
<https://shehryar-malik.github.io/>  
<https://linkedin.com/in/malik-shehryar>

## EDUCATION

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<b>Lahore University of Management Sciences, Lahore</b> Masters of Science • Computer Science • Dean's Honour List	September 2019 – May 2021
<b>University of Engineering and Technology, Lahore</b> Bachelor of Science • Electrical Engineering	August 2015 – May 2019
<b>Aitchison College, Lahore</b> A Levels	August 2013 – May 2015

## WORK EXPERIENCE

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<b>Research Assistant</b> Center of Artificial Intelligence and Computational Science, Information Technology University, Lahore. Research Advisor: Dr. Ali Ahmed.	July 2019 – Present
<b>Research Intern</b> Centre for Language Engineering, Khwarizmi Institute of Computer Science, Lahore.	July – September 2018

## RESEARCH

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- S. Malik\***, U. Anwar\*, A. Ahmed, and A. Aghasi. Inverse constrained reinforcement learning. In *International Conference on Machine Learning*, 2021. URL <https://arxiv.org/abs/2011.09999>
- S. Malik\***, U. Anwar\*, A. Ahmed, and A. Aghasi. Learning to solve differential equations across initial conditions. In *Workshop on Integration of Deep Neural Models and Differential Equations at the International Conference on Learning Representations*, 2020. URL <http://arxiv.org/abs/2003.12159>

## THESES

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<b>Neural Network Pruning Through Constrained Reinforcement Learning</b> Master's Thesis Advisor: Dr. Murtaza Taj	September 2020 – May 2021
<b>Urdu Handwriting Recognition using Deep Learning</b> Senior Project • <a href="https://shehryar-malik.github.io/theses/sp">https://shehryar-malik.github.io/theses/sp</a> Advisor: Dr. Ubaid Ullah Fayyaz	September 2018 – May 2019

## SKILLS

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- Natural languages: Proficient in English and Urdu.
- Programming languages: Proficient in Python, Golang, LaTeX.
- Libraries: Extensively used NumPy, TensorFlow, PyTorch and OpenCV.

## SELECTED COURSEWORK

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- Artificial Intelligence and Machine Learning**
- Deep Reinforcement Learning (UC Berkeley CS294-112)
  - Natural Language Processing with Deep Learning (Stanford CS224n)
  - Convolutional Neural Networks for Visual Recognition (Stanford CS231n)
  - Machine Learning (Stanford CS229)
  - Introduction to Artificial Intelligence (MIT 6.034)
- Mathematics**
- Convex Optimization - I
  - Probability and Statistics
  - Linear Algebra