

## EXPERIENCE

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- **OneByte** September 2019 - Present  
*Data Scientist, Working Remotely* *Lahore, Pakistan*
  - **Data Extraction and Classification System:** Data extraction and classification models for actionable findings and other organ specific abnormalities for a patient screening and monitoring solution (Eon Healthcare).
  - **Procedure Mapper:** Model to map medical procedure names from different hospitals to a standardized lexicon.
  - **Model Vetting System:** Model vetting system using custom Prodigy and BRAT interfaces.
  - **Script Monitoring System:** Monitoring system for model vetting scripts
  - **Tagmoo (Cattle ID System):** Cattle muzzle print ID system using computer vision.
- **Paitoo** February 2019 - September 2019  
*Machine Learning Engineer, Working Remotely* *Lahore, Pakistan*
  - **Recommendation Engine:** Recommendation engine for a food centered social media app (Paitoo App)
  - **Classification System:** Hierarchical image classification model to automatically classify dishes in the Paitoo database.
  - **Ranking Optimization:** Ranking optimizations to maintain and update "Trending items" list within the app.
  - **Data Analysis:** Data analysis on user generated data.
- **DataLog - CodeNConsult** May 2018 - September 2018  
*Computer Engineer Internee* *Karachi, Pakistan*
  - **IoT Sensor App:** App for IoT data collection, authentication and cloud storage, with cloud services integration.

## PROJECTS AND PUBLICATIONS

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- **Auto-Encoder Knowledge Extraction for Anomaly Detection Task:** Knowledge extraction from auto-encoders on anomaly detection tasks using co-activation graphs (ACM K-CAP conference 2021).
- **Boolean Logic Ensemble Method:** Hierarchical categories with a novel boolean logic ensemble classifier to overcome dataset limitations.
- **Graduation Project (CID):** Modular self-driving system for use in virtual environments.

## EDUCATION

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- **Masters in Artificial Intelligence** August 2020 – Present  
*VU Amsterdam* *Amsterdam, Netherlands*
  - **Research Assistant:** Exploring deep learning strategies for effective knowledge transfer in epitope prediction.
- **Bachelors of Science in Computer Engineering** August 2014 – June 2019  
*Middle East Technical University* *North Cyprus, Turkey*

## SELECTED COURSEWORK

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|---|----------------------------|-----------------------|
| • Machine Learning                      | • Knowledge Representation | • Multi-Agent Systems |
| • Artificial Intelligence               | • Dynamic Programming      | • Data Mining         |
| • Experimental Design and Data Analysis | • Evolutionary Computing   | • NLP Technologies    |
|   | • BioInformatics           |                       |

## SKILLS

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- **Proficient with:** Python - SkLearn - OpenCV - Pandas - TensorFlow - Keras - Git - Arduino PCBs - Elastic Search - Linux - C
- **Have Knowledge of:** C++ - IoT Technology - C# - Azure - AWS - SQL - Raspberry Pi