Daniyal Selani

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EXPERIENCE

- **Philips**   January 2022 - July 2022
  AI for Language Research Intern   *Eindhoven, Netherlands*
  - **Log Data Language Modeling**: Training language models for log data generated by medical devices for down stream maintenance and diagnostic tasks.

- **OneByte**   September 2019 - December 2021
  Data Scientist   *Remote Work*
  - **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   *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*

PROJECTS AND PUBLICATIONS

- **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

- **Masters in Artificial Intelligence**   August 2020 – July 2022
  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

- Machine Learning
- Artificial Intelligence
- Experimental Design and Data Analysis
- Knowledge Representation
- Socially Intelligent Robotics
- Evolutionary Computing
- BioInformatics
- Multi-Agent Systems
- Data Mining
- NLP Technologies
- Machine Learning and Reasoning for Healthcare

SKILLS

- **Proficient with**: Python - SkLearn - OpenCV - Pandas - TensorFlow - Keras - Git - Pytorch - Elastic Search - Linux

- **Have Knowledge of**: C++ - IoT Technology - C# - Azure - AWS - SQL - Raspberry Pi