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Education

- Feb 2021 | **M.Sc in Artificial Intelligence**, *University of the Witwatersrand, Johannesburg, South Africa.*
Nov 2022
Sep 2012 | **B.Sc in Electronics Engineering**, *Capital University of Science and Technology, Islamabad, Pakistan.*
Jun 2016
Sep 2009 | **F.Sc (Grade 11 - 12) in Pre - engineering**, *Punjab College for Information and Technology, Multan, Pakistan.*
Jun 2011
Sep 2007 | **Matriculation (9 - 10)**, *Multan Public Schoole, Multan, Pakistan.*
Jun 2009

Experience

- May 2021 – **Data Scientist Intern**, *Aureks, Remote.*
Present
 - Maintain ML pipeline which included:
 - Kmeans clustering to maintain semantically similar keywords in clusters
 - Used Spacy for finding semantic similarities between words. Word embedding vectors were used to find distance between new keyword and cluster
 - Applied PCA for dimension reduction of word embedding vectors
 - Assigning new data relevant clusters
 - Passing the new words to Fbprophet time series framework to predict Cost-Per-Click of the keywords
 - Maintaining Data pipeline through MongoDB and pymongo

Dec 2018 – **Project Coordinator**, *Reliance Engineering Company, Multan, Pakistan.*
Jan 2020
Aug 2017 – **G & E (Telecom Integration) Engineer**, *ZTE Corporation, Islamabad, Pakistan.*
Oct 2018
Aug 2016 – **Site Engineer**, *Reliance Engineering Company, Multan, Pakistan.*
Aug 2017

Skills

Programming Languages Python, SQL

Frameworks Tensorflow, OpenCV, Huggingface, Spacy, Nltk, Scikit-learn, Xgboost, Fbprophet, Pymongo

Databases MongoDB, MySQL

Other Skills Data Visualization, LaTeX, Microsoft Excel

Projects

Early Stage Tomato Leaf Disease Detection Using Deep Learning,
Python, Latex.

Research Capstone Project For M.Sc

Sound Source Localizing Robot, C++.

Final Year Project For B.Sc.

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

Intelligent PSO parameter tuning through Tabu Search, Python.

Solving Longest distance in a Maze through Ant System algorithm,
Python.

Feature subset selection through Genetic Algorithm, Python.

Certifications

**Improving Deep Neural Networks: Hyperparameter Tuning, Regular-
ization and Optimization, Feb 2021.**

[coursera.org](https://www.coursera.org)

Neural Networks and Deep Learning, Aug 2020.

[coursera.org](https://www.coursera.org)

Machine Learning with Python, Aug 2020.

[freeCodeCamp.org](https://www.freecodecamp.org)

Python Programming, Jun 2020.

[udemy.com](https://www.udemy.com)