

# Qalab E Abbas

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## EDUCATION

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- **Kumoh National Institute of Technology (Kit)** Gumi, South Korea  
*Master of Science in IT Convergence* Sep. 2018 – Dec. 2020
- **National University of Sciences and Technology (NUST)** Islamabad, Pakistan  
*Bachelor of Engineering in Electrical (Telecom) Engineering* Sep. 2012 – July. 2016

## EXPERIENCE

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- **ToICoS** Daegu, South Korea  
*Data Scientist-Intern* Jan. 2021 Mar. 2021
  - **In-House Water Leakage Detection:** Created models for detecting in-house water leakage using smart water meter data.
  - **Water-Meter Freeze Detection:** Created models for calculating the probability if the water meter would freeze or not.
- **Kumoh National Institute of Technology** Gumi, South Korea  
*Research Assistant* Sep. 2018 – Dec. 2020
  - **Research Assistant - Machine Learning:** Research on machine learning and deep learning algorithm using TensorFlow and Python. Mainly worked with time-series datasets and predictive modeling problems.

## PROJECTS

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- **Credit Card Fraud Detection Using Imbalanced Classification:** Used a combination of different sampling techniques to reduce and balance the dataset. The main focus was on decreasing the run time of the entire code. Achieved a 50% decrease in run time than the best performing algorithm while keeping the same results.
- **Tax Forecasting Using Deep Learning:** Comparison of different Machine learning and Deep learning techniques for purpose of forecasting the tax-revenue for future months
- **Loan Approval Using Machine Learning:** Classification of customers as good or bad to decide if the should be given a loan. Challenge here was to deal with skewed data because the ML algorithms expects a balanced dataset for proper learning.
- **Data Exploration in SQL - Covid Cases Data:** Exploratory Analysis on Covid Dataset Using SQL to see any interesting patterns on country and continent scale.
- **Covid Cases Visualization Using Tableau:** Visualization of Covid Cases Using Tableau Public.
- **Data Cleaning in SQL - House Price Data:** Nashville House price data was cleaned using SQL by removing hard to interpret columns and by changing and extracting some features from columns like Address etc. Better/Cleaner the Data, easier it is to draw insight from it. Cleaner data also increases the accuracy of Prediction Models as well.
- **Data Analysis Using Python - IMBD Data:** Analysis of IMDB dataset to see correlation between different features of the data. For example the correlation between Movie gross-revenue and budget is highest.

## RESEARCH PUBLICATIONS

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- A Comparative Study of Machine Learning Algorithms Based on Tensorflow for Data Prediction
- A Survey of Blockchain and Its Applications

## SKILLS

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- **Industry Knowledge:** Machine Learning, Deep Learning, Classification, Regression, Time-Series, Signal Processing, Predictive Modeling, Anomaly Detection
- **Tools:** SSMS, Tableau, Excel, Knime, Jupyter Notebook, Anaconda
- **Programming Languages:** Python, SQL, C++, HTML, CSS
- **Python Libraries:** TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, Statsmodels, Prophet
- **Language:** English, Urdu, Hindi, Punjabi