ALI KHUZEMA

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PROFILE

A passionate Data Scientist, working in R&D department of Afiniti. I have executed numerous analytical experiments to help solve various problems, making a true impact across different domains and industries such as banking and telecommunication. Proficient in Analytics, Statistics and Machine Learning Methodologies.

EDUCATION

MSc in Data Analysis for Business Intelligence

University of Leicester

2019 - 2020 | Leicester, United Kingdom

- Grade: Distinction
- Relevant Modules: Data Science for Actuaries, Mathematical Modelling, Business Statistics, Data Mining and Neural Networks.
- **Dissertation:** Human Detection at Railway Crossovers using PIR Sensors combined with Artificial Intelligence - The developed Model was based on two parts, motion detection using PIR (Passive Infrared) sensors and classification of output signals in frequency domain using Fisher's linear discriminant for human identification.

BS in Computer Engineering

Ghulam Ishaq Khan Institute of Science & Technology

2014 - 2018 | Topi, Pakistan

- Relevant Modules: Database Management Systems
- Final Year Project (1st Position): Non-invasive Glucose Meter - A device designed to measure glucose level without drawing out the blood using Near-infrared Spectroscopy. A regression-based machine learning model was implemented by collecting the data samples using the invasive device available in the market.

SKILLS

Technical Skills

R, Python, SQL, C/C++, C#, MATLAB, Power BI, Microsoft Excel

Personal Skills

Team player, Multi-tasker, Results-oriented, Risk Mitigation and Management, Critical thinker, Quantitative and Data-Analysis skills.

REFERENCES

Available on requests.

PROFESSIONAL EXPERIENCE

Afiniti

Senior Data Scientist

07/2022 - Present | Islamabad, Pakistan

Working in Decisioning - R&D department of Afiniti. My responsibilities are mainly:

- Create and deploy real-time decisioning models for different clients. Models are mainly comprised of classification models; xgboost and
- Developed Gain Debugging Tool to monitor the performance of deployed models and debug the issues if found. This tool has reduced the manual work by approx. 60%
- Implemented NLP on scripts to identify the useful information discussed on the call which can be used in ML models.
- Developed utility tools which can be used by the Data Scientists to assist them in modeling.

EY (Ernst & Young)

Senior Consultant

03/2021 - 07/2022 | Karachi, Pakistan

Project: EWA (Earned Wage Access) Market Analysis in Pakistan

- Surveys were conducted among employees from various industry sectors to assess their financial stability and knowledge of EWA.
- The survey results were then analysed, and a report was prepared to highlight the issues faced by the salaried class, as well as how EWA could be a potential solution.

Project: Business Consulting Services Dashboard

Developed a comprehensive dashboard to track and monitor all projects within the Business Consulting Service Line. Following were key features:

- Implemented a robust tracking mechanism to monitor the profitability and revenue generated across different sectors and projects.
- Designed a timeline monitoring feature that enabled the tracking of project progress in terms of hours invested.
- Developed a performance monitoring module to track the performance of managers assigned to various projects.

Project: Validation of Credit Risk Scorecards (Retail Banking)

- Validated models, comprised of both behavioral and application scorecards. Highlighted various model development gaps, such as in their variable selection and data transformation methodologies.
- Created challenger models with better and improved methodology which provided better accuracy compared to bank's existing models. The challenger models increased accuracy by up to 10%.
- Developed "Affordability Assessment Model" to perform stress testing on loan portfolio to evaluate risk due to possible increase in interest rates in the future.

LCC - A Talkpool Company

Junior Data Scientist

2018 - 2019 | Islamabad, Pakistan

Project: Fuel Monitoring System

- Interpreted data coming from our fuel sensors installed on telecom sites and reported any faults detected
- Managed reports highlighting fuel consumption and fuel theft of every
- Maintained the system dashboard according to the customer needs
- Provided technical support to the on-field teams to fix issues on the sites.