

SAAD SARFRAZ

CONTACT INFORMATION

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Address: Melbourne, Victoria - Willing to Relocate

EXECUTIVE SUMMARY

I am an industrious individual who likes to develop analytical solutions for quantitative problems by breaking the complex models into manageable ones.

TECHNICAL SKILLS

PYTHON

- **Machine Learning** : Scikit Learn, NLTK, Tensorflow
- **Data Visualisation**: Seaborn, Matplotlib
- **Data Exploration** : Pandas, Numpy, Scipy
- **Data Gathering**: Beautiful Soup

R

- **Machine Learning** : Caret, XGBoost, randomForest, e1071, glmnet
- **Data Visualisation**: Shiny, Plotly , Ggplot2, Corplot and Lattice
- **Data Wrangling**: Dplyr and data.table

SQL

- Developing Conceptual, logical Models
- Running Queries
- Update, delete and transaction management

SPARK

- Spark Maching Learning Library (MLlib)
- Spark MongoDB
- Spark SQL

POWER-BI

- Creating interactive dashboards for data visualization using graphs and charts
- PowerQuery

TABLEAU

- Visualizations created using Tableau to show data insights

MICROSOFT EXCEL

- **Statistical analysis using Excel**: Pivot tables, Vlookup, Data Analysis
- **Models**: Optimization Model with Linear Programming, Network Modelling, Integer Linear Programming ,Inventory Modelling and Payoff Matrix
- **Microsoft Excel Solver Reports**: Answer, Sensitivity and Limits Reports

EDUCATION HISTORY

Monash University

Master of Data Science 2018-2020

Ghulam Ishaq Khan Institute (GIKI)

Bachelor of Mechanical Engineering 2013-2017

WORK EXPERIENCE

Business Analyst

Purelogics | Pakistan | Remote, Feb 2020 - July 2020

- Applying knowledge of SDLC with implementation of Agile methodologies
- Generating monthly and quarterly reports as bar charts using different techniques like data filtering, adding interactivity, deploying reports to the report server using SSRS
- Supporting the full BI lifecycle from requirement analysis through design & development, and through release and support/maintenance phases
- Designing, producing and presenting various dashboards, analysis templates and effective recommendations using Tableau to deliver complete business reports
- Data management with a focus on data sensitivity, security and privacy

Online Fulfilment & Logistics

Myer | Chadstone | Nov 2019 - Present

- Managing workload during peak periods
- Inventory planning and Stock distribution
- Administration of the daily fulfilment activities
- Improving the Financial capacity of the department
- Coordination between the E-commerce fulfilment channel

Retail Sales Associate

Myer | Chadstone | Nov 2018 - Nov 2019

- Serving Customers and providing efficient customer service
- Drive sales through engaging customers
- Managing Financial transactions (POS)
- Coordination with Management for stock merchandising

Graduate Trainee Engineer

PakArab Fertilizers Ltd. | Pakistan | Nov 2017 - May 2018

- Worked as a Trainee Maintenance engineer on a Nitro-Phosphate Plant
- Planning and Undertaking the Scheduled Maintenance of Both Static and Rotary Equipment
- Compiling the daily maintenance activities and giving weekly presentations on the findings to Plant heads
- Distributing planned maintenance activities to technicians and coordinating with the head technician on progress activities

LEADERSHIP ROLES

PEER MENTOR

- Mentored a group of students throughout their initial introduction into the university

Vice President of CBS - Character Building Society GIKI

- Assisted and managed the weekly and monthly activities of the club to promote the society
- Gave the new members vision of what the structure of the society is all about

Financial Advisor IET - Institute of Engineering Technology GIKI

- Financial planning for weekly and monthly activities with advising means to increase revenue
- Coordination with clients to find equitable balance for financial objectives

Logistics head - GIKI Science Society

- Handled the logistics of 300 people attending an event
- Maintained logistics reports for financial advisor to use for better financial decisions

LANGUAGES

- **URDU** (Native)
- **ENGLISH** (Proficient)
- **PUNJABI** (Intermediate)

REFERENCES

Can be provided on request

PROJECTS

Industry Experience Project | Monash | Sep 2020 - Nov 2020 Altered Urban - A guide to urban plantation

- Dividing the complex problem into simpler ones and choosing meaning obtained from data to derive the project topic
- Mining, Wrangling and Manipulation of data gathered from Various structured and un-structured sources using Python
- Visualizing the findings using **Tableau, PowerBI, and Google Maps API** embedded in **Wordpress** to ensure people recognize the trend patterns effectively
- Forming a **MySQL database** to ensure a structured facilitation of data communications between the clients and the server
- User **Acceptance Criteria Testing** based on the User stories and acceptance criteria defined beforehand

Geographical Data Integration and Transformation Analysis of Victorian Suburban Value

- This project is integrating the victorian suburban boundary data with the crime in each suburb and the proximity from the city. All of these factors are merged to show why the reasons for the higher cost of living in certain suburbs than the others
- **Python** was used with the libraries Pandas and Numpy for data manipulation. Transformation of data was done through standardization, min-max normalization, log, power, and root transformation was observed and finally the most effective transformation was selected

ICC Cricket World Cup 2019 Predictor

- This project predicted what was going to happen in the upcoming Cricket World Cup as valuable insights to Punters and Betting enthusiasts who can take data driven decisions using the predictor algorithm
- All the World Cup data was acquired and insights were drawn from visualization of the data
- Key focus was put of the performance of teams in years before the built up to the WorldCup and the number of total players in the top 10 Batting and Bowlers list and taking into consideration Home and Away game records a predictor was made using **R - Statistics**
- Findings were visualized using **Power BI** Dashboards so that the users can easily be aware of the findings and who to bet on

Final Year Project | GIKI | Aug 2016 - May 2017 Solar Fruit Dehydration Using Phase Change Material

- Utilizing the energy of Sun and the capacity of the Phase Change material to store energy thereby finding a cost efficient and renewable way to dry fruits
- Designing an equipment that acted as a heat exchanged between the Sunlight and the Phase Change Material
- Experimentation using **Ansys** to show the thermal patterns of the design trying to be implemented
- Final product design using **Auto-CAD** software to ensure precise dimensions are made
- Project physically made and assembled by providing **CAD diagrams** to manufacturers