Mohammad Saleh Ebrahimi

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Work Experience

Since May 2021

Data Analyst - **SnappFood**

SnappFood is the leading online food ordering company in Iran. As a Data Analyst and member of the BI delivery team at SnappFood, my main responsibilities are:

- Analyzed bikers' behavior and fleet performance in order to develop actionable and insightful recommendations and keep delivery service quality at a high level, it lead to 95% delivery service SLA
- Designed, developed, and managed BI reports/dashboards across 5 departments by using various tools, e.g. Tableau and presented the results and reports in communication and meetings with stakeholders across the company
- Implemented ML models to predict churn from bikers' behavior, resulted in 25% decrease in biker hiring cost
- Conducted over 50 Technical Interview with talented candidates

Tools and Languages: Python, Scikit-learn, SQL, Microsoft SQL Server, MySQL, Microsoft Excel.

July 2021

IEEE Reviewer, *Subotica, Vojvodina, Serbia*

I was responsible for reviewing papers submitted to the IEEE 19th International Symposium on Intelligent Systems and Informatics, in the field of Computational Intelligence.

Dec. 2020 - May 2021

Data Analyst - **Basalam**

Basalam is a social marketplace where you get to know producers, artists and artisans and buy their products directly. As a Data Analyst at Basalam, I was responsible for:

- interpreting data, analyze results, and extract business insights from complex data which lead to 30% improve in cross-sell
- I had a close collaboration with 3 cross-functional teams in order to provide high-impact and actionable insights for the company.
- Created Over 100 monitoring dashboards using metabase, which helped over 10 teams monitor their KPIs
- Coordinated and developed 5 automation projects which saved 30 person-hour daily time in 5 teams

Tools and Languages: SQL, Python, Metabase, Power BI, Microsoft Excel.

Education

2017- 2021

Bachelor of Science in Computer Science,
Bahonar University of Kerman, Kerman, Iran

Technical Skills

Programming, Python

Scripting, SQL

Visualization, Matplotlib, Seaborn, Power BI, Metabase

Machine Learning, TensorFlow, Keras, Scikit-Learn

Data Management, Pandas, SQL Server, PostgreSQL, MySQL

Operating Systems, Linux, Windows

Main Projects

Feb - Mar 2022

Biker Churn Prediction

Objective: Predicting bikers churn in order to take actions for churn prevention.

One of the core parts in SnappFood is its delivery service. It directly affects the whole system from both supply side and demand side and has a direct effect on customer's experience and satisfaction. As a result, bikers churn is one of the main concerns in SnappFood.

In this project I've:

- Created datasets, Performed EDA and Performed behavioural analysis to analyze the behavior of bikers who are prone to churn
- Trained, fine-tuned and assessed various Machine Learning models, and deliver weekly reports to operation team

2019- 2020

Algorithmic Approach for Addressing the Imbalanced Class Problem

Objective: Addressing Imbalance Class Problem in datasets.

Most real world datasets suffer from the problem of imbalanced distribution of classes, We've developed an algorithmic level approach for addressing this problem which resulted in the paper:

A Combination of Clustering-based Under-sampling with Ensemble Approach for Solving Imbalanced Class Problem in Intelligent Systems

2018-
2019
Hybridization of Self-adaptive Multi-verse Optimizer over K-Means
Objective: Addressing K-Means drawbacks such as slow convergence rate and converging to local optima.
K-Means is one of the most popular clustering algorithms, but it suffer from problems such as converging to local optima and requiring the number of clusters in advance. we've used Self-adaptive Multi-verse Optimizer to solve the clustering as an Optimization Problem. This project resulted in paper:
A Novel Hybridization of Self-adaptive Multi-verse Optimizer over K-Means for Data Clustering

Publications

2020 **A Combination of Clustering-based Under-sampling with Ensemble Approach for Solving Imbalanced Class Problem in Intelligent Systems**,
Mohammad Saleh Ebrahimi Shahabadi, Hamed Tabrizchi, Marjan Kuchaki Rafsanjani, B. B. Gupta, Francesco Palmieri
Published in the journal of Technological Forecasting and Social Change (Impact Factor: 8.59) (ScienceDirect)

2019 **A Novel Hybridization of Self-adaptive Multi-verse Optimizer over K-Means for Data Clustering**, Hamed Tabrizchi,
Mohammad Saleh Ebrahimi Shahabadi, Marjan Kuchaki Rafsanjani
Proceeding of IEEE at 8th Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 2020 (IEEE)

Honors and Awards

2021 **Province-Wide Research Excellence Award**, Kerman, Iran, Due to the research which I conducted during my bachelors study in computer science, I was selected as the only province-wide distinguished researcher with bachelor's degree.

2020 **Research Excellence Award**, *Department of Mathematics and Computer Science*, Shahid Bahonar University, Awarded distinguished researcher among Computer Science students for research conducted in Machine Learning and Data Science

2017 **1st Rank Scientific Association**, *Presented by the* **Minister of Science, Research and Technology of Iran**, Honored as a member of the National distinguished association among (9000+) scientific associations in Iran

Languages

English Professional Working Proficiency
Persian Native