

## **\*\*KAGGLE PROJECTS\*\***

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### **1. Facebook Friend Link Prediction**

- **Description:** The data consists of source nodes and destination nodes of friends. After feature engineering, I applied various machine learning models such as Random Forest and XGBoost.
- **Implementation:** Social Media, Advertising.
- **Skills:** Machine Learning, Sklearn, Python.
- **GitHub:** [Facebook Friend Recommendation](#)
- **Source:** [Facebook Recruiting on Kaggle](#)

### **2. Human Activity Recognition with Smartphones**

- **Description:** Addressing a classic Time Series Problem, I utilized LSTM to analyze time series data of different activities recorded by smartphones, fitness bands, and smartwatches.
- **Implementation:** Mobile Application, Fitness Bands, Smart Watches.
- **GitHub:** [Human Activity Detection using Deep Learning \(RNN-LSTMs\)](#)
- **Source:** [Human Activity Recognition with Smartphones on Kaggle](#)

### **3. Amazon Fine Food Reviews**

- **Description:** Tackling a Sentiment Analysis problem, I classified the polarity of Amazon reviews using various models including k-NN, Logistic Regression, Naïve Bayes, Ensemble models, Decision Trees, and LSTM.
- **Implementation:** E-commerce Applications, Browser Extension.
- **Skills:** Data Visualization, Machine Learning, Python.
- **GitHub:** [Amazon Fine Food Reviews](#)
- **Source:** [Amazon Fine Food Reviews on Kaggle](#)

### **4. Stack Overflow Tag Prediction**

- **Description:** Solving a multi-class classification problem, I performed feature engineering and applied models like Logistic Regression and SVM to predict suitable tags based on the title and body of Stack Overflow questions.
- **Implementation:** Question-Answer Platforms like Quora and Stack Overflow.
- **Skills:** Data Visualization, Machine Learning, Python.
- **GitHub:** [Stack Overflow Tag Prediction](#)
- **Source:** [Stack Overflow Tag Prediction on Kaggle](#)

### **5. Taxi Demand Prediction in New York City**

- **Description:** Predicting taxi demand in New York City using a Kaggle dataset. Employed machine learning techniques to forecast demand patterns and optimize taxi services.
- **Implementation:** Transportation, Urban Planning.
- **Skills:** Time Series Analysis, Machine Learning, Python.
- **GitHub:** [Taxi Demand Prediction in NYC](#)
- **Source:** [NYC Taxi Demand Prediction on Kaggle](#)

### **6. Amazon Apparel Recommendation**

- **Description:** Developed a recommendation system for Amazon apparel using Kaggle's dataset. Implemented collaborative filtering techniques to enhance user experience in e-commerce platforms.
- **Implementation:** E-commerce, Recommendation Systems.

- **Skills:** Collaborative Filtering, Recommender Systems, Python.
- **GitHub:** [Amazon Apparel Recommendation](#)
- **Source:** [Amazon Apparel Dataset on Kaggle](#)

## 7. Microsoft Malware Detection

- **Description:** Participated in the Microsoft Malware Detection competition on Kaggle. Employed advanced machine learning models to detect and prevent malware, contributing to cybersecurity efforts.
- **Implementation:** Cybersecurity, Machine Learning.
- **Skills:** Feature Engineering, Ensemble Learning, Python.
- **GitHub:** [Microsoft Malware Detection](#)
- **Source:** [Microsoft Malware Detection on Kaggle](#)

## 8. Self-Driving Car - Steering Angle Prediction

- **Description:** Implemented a self-driving car project using Kaggle's dataset. Developed a model to predict steering angles based on input data, contributing to the advancement of autonomous vehicle technology.
- **Implementation:** Autonomous Vehicles, Deep Learning.
- **Skills:** Computer Vision, Neural Networks, Python.
- **GitHub:** [Self-Driving Car Steering Angle Prediction](#)
- **Source:** [Car Steering Angle Prediction on Kaggle](#)

## 9. Quora Question Similarity Prediction

- **Description:** Participated in the Quora Question Pairs competition on Kaggle. Developed a model to predict the similarity between pairs of questions, contributing to the improvement of question answering systems.
- **Implementation:** Natural Language Processing, Question Answering.
- **Skills:** Text Similarity, Feature Engineering, Python.
- **GitHub:** [Quora Question Similarity Prediction](#)
- **Source:** [Quora Question Pairs on Kaggle](#)

## 10. Netflix Movie Recommendation

- **Description:** Worked on a Netflix Prize dataset to create a recommendation system. Applied collaborative filtering techniques to enhance user satisfaction in movie streaming services.
- **Implementation:** Recommendation Systems, Entertainment.
- **Skills:** Collaborative Filtering, Data Cleaning, Python.
- **GitHub:** [Netflix Movie Recommendation](#)
- **Source:** [Netflix Prize Data on Kaggle](#)

## 11. Personal Cancer Diagnosis

- **Description:** Participated in the MSKCC Personalized Medicine competition on Kaggle. Developed models for cancer diagnosis and treatment recommendation based on genetic and clinical data.
- **Implementation:** Healthcare, Precision Medicine.
- **Skills:** Feature Engineering, Bioinformatics, Python.
- **GitHub:** [Personal Cancer Diagnosis](#)
- **Source:** [MSKCC Redefining Cancer Treatment on Kaggle](#)