KRUNAL R. GANDHARE

Machine Learning Engineer

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OBJECTIVE

Delving in Data Science from past 3+ years, now seeking a challenging position to utilize my skills and abilities that offers Professional & Organizational growth, while being resourceful and innovative. Have expertise in preparing and preprocessing data, deriving useful insights from data, developing and deploying highly scalable machine learning models.

PROFILE SUMMERY

- Motivated Machine Learning Engineer with 3+ years of experience in Predictive Modeling and Data Mining and Implement Statistical Machine Learning Algorithms with expertise in **Finance domain projects**.
- Highly adept to **Regression** and **Classification** and thriving analyst with the ability to apply **Machine Learning Techniques** and **Algorithms Development** to solve real world industry problems.
- Ability to achieve in-depth understanding of the problem domain and available data assets.
- Able to investigate **Data Visualization** and summarization techniques conveying key findings.
- Communicates findings and obstacles to team members to achieve best approach.
- Ability to write a clean and production code with **Object Oriented Programming** in **Python.**
- Knowledge in data management tools - **Relational and SQL databases**.
- Knowledge of Python's **Data Analysis** and **Machine Learning Libraries**.
- Ability to use **Web Scraping Tools** as **Regular Expressions and BS4**
- Development of **REST APIs** in **Python.**
- Experience in Web Framework **Flask.**
- Knowledge of **Regularization** techniques like **Lasso and Ridge in regression.**
- Source code management and Version Control system using **Git and GitHub.**
- Ability to **interact with customers** with ease and **professionalism.**
- Knowledge of **Under sampling and Oversampling** and **Sparse Data**

EXPERIENCE

Machine Learning Engineer

Honeywell, December 2018 to Present

Key Responsibilities

- Understand, analyze and interpret the datasets
- Develop, debug and maintain ML software applications written in Python ecosystem, SciKit-Learn.
- Design Machine Learning Models for different types of data (Sales, business data, images, etc.) and different output types (Classification, Regression, Clustering)
- Create Machine Learning models for forecasting, prediction, classification, anomaly detection, etc.
- Investigate the behavior of input and output data numerically.
- Investigate and optimize model's performance.
- Preparing and delivering presentations to clients

PROJECTS

Automobile Insurance Fraud Detection

Domain Insurance

The Detection of Automobile Insurance Fraud, build a classification methodology to determine whether a customer is placing a fraudulent insurance claim which include:

- Collect the data, perform data validation and insert into the database.
- As per the shape of the data performing clustering.
- After preparing the clusters, apply different models for each cluster using hyperparameter tuning that predict whether a customer is placing a fraudulent insurance claim.
- Select a final model by evaluating the different models and deploy the model using AWS.

Credit Card Default

Domain Banking

The client wanted a classification model that would predict an individual customer would default on his next payment so as to push notification about alert and the premium financial help available with company.

- Data cleaning and data preprocessing carried out.
- The received data was preprocessed and insights were derived to show which group was likely to default.
- To the aid of EDA for finding deeper insights clustering was used.
- A model was later prepared that would flag the impending bill generated as “Likely to be defaulted”
- With more data the model was perfected and deployed on AWS

Electric Motor Coolant Flow Control for EV

Domain Engineering

The client is a leading company in automobile industry and about to launch several EVs in Indian market. The client working towards novel idea of removing sensors from certain parts of EV.

- Client wanted to remove temperature sensors from the motor which regulated the coolant flow
- Sensor data consisting of running conditions of main EV motor and coolant pump was provided.
- EDA performed to check multicollinearity in data.
- Several models were tested for the intended task of controlling speed of coolant pump and the best one regression model selected.
- A ML model developed to regulate the coolant flow to the motor saving cost to the client and costumer
- ML model is perfected so that it can be applied to any general-purpose machine

TECHNICAL SKILLS

Python Packages	NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask.
Machine learning	Linear Regression, Ridge & Lasso Regression, Logistic Regression, Naïve Bayes Classifier, k Nearest Neighbor’s Classifier, Support Vector Machine, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, Gradient Boosting, XGBoost, K-means Clustering, SKLEARN Pipeline
NLP	Text Preprocessing, Stemming, Lemmatization, Bag of words

TECHNICAL SKILLS

Web stack	Flask
Database	MySQL
Operating Systems	Linux, Windows.

SOFT SKILLS

	Written and Verbal Communication
	Interpersonal Skills
	Teamwork, Collaboration
	Presentation Skills

EDUCATION

Examination	Board/University	Year	Percentage
M.E.	AMARAVATI	SUMMER-2015	8.92(CGPA)
B.E. DEGREE	AMARAVATI	SUMMER-2011	72.45
H.S.C.	MAHARASHTRA	FEBRUARY-2007	74.83

HOBBIES AND INTEREST:

	Music
	Reading Books
	Infotainment

PERSONAL DETAILS:

Date of Birth	25th August 1989
Permeant Address	Sai Nagar, Near Sai Mandir, Arvi, Dist.: Wardha, Maharashtra
Languages Known	Marathi, Hindi, English
Gender	Male