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VIKAS KUMAR MISHRA

Machine Learning Engineer



SUMMARY

Experienced Machine Learning/NLP Engineer with proven success in building successful algorithms & predictive models for different working domain. Highly adept at regression, classification, data analysis & visualization to increase business efficiency. Passionate engineer & thriving analyst with the ability to apply ML techniques & algorithm development to solve real-world business problems.

KEY SKILLS

- **Data Visualization, Statistics**
- **Predictive Analysis**
- **Statistical Modeling**
- **Mentoring and Training**
- **Clustering & Classification**
- **Data Analytics • Data Mining • SQL**
- **ML/DL Algorithms, Neural Networks**
- **Problem solving, Text Analytics**
- **Team Work, Customer Management,**
- **Presentation, Communication,**
- **Leadership Skills**

TECHNICAL SKILLS

- **Tools:** Python, PostgreSQL, MySQL, Tableau.
- **Packages:** Scikit-Learn, Numpy, SciPy, Pandas, Pyspark, Matplotlib, Seaborn, Statsmodels, Jupyter Notebook, Databricks, Tensorflow, Keras
- **Statistics/Machine Learning:** Statistical Analysis, Linear/Logistic Regression, Classification, Regularizations, PCA, RFE, SVM, KNN, Decision Tree, Ensemble techniques, Unsupervised Learning. Deep Learning, NLP

CERTIFICATIONS

- **Information Visualization: Applied Perception**
- **Python for Machine Learning and Data science master class.**
- **Tableau 2020 A-Z: Hands-On Tableau Training for Data Science**
- **Statistics for Data Science and Business Analysis**
- **Statistics: Khan Academy**

ACHIEVEMENTS

- Received 3 On spot and best Team Award.
- Received client appreciation and early promotion to ITA.
- Subject expert (**statistician**) at Chegg

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

Jun '16 - Present

Tata Consultancy Services

Bangalore

Responsibilities and Key Learning

- Performed preliminary analysis, EDA, Descriptive Stats. on a data volume of 5 Lacs odd rows & visualized using Matplotlib and Seaborn
- Created BI dashboards using **Tableau** for various KPIs and successfully automated the same
- Handled **data imbalance**, performed **feature engineering** and **feature selection** to make the data fit for model building
- Analyzed problem solving capabilities of **ML/DL algorithms** on business cases and rank them based on there performance.
- Improved model performance though various **Hyperparameter Optimization** techniques.

Projects:

Complaint Categorization

- Segregated complaints based on respective complaints category
- Reduced time/effort and human errors were eliminated by automating the **segregation**
- Developed model using **NLP** to **tokenize** the text and algorithm used was **Naïve Bayes**

Determination of strength of surgical cement

- Instituted model to predict bone cement **Polymethyl methacrylate (PMMA)** strength
- Prepared data for building **regression** model
- Developed and tested regression models and **XGboost** turns out to be most efficient.

Sentiment Analysis

- **Data Cleaning** – Converting unstructured into structured data using Python
- Preparation and conversion of text data into vector notation though one **hot encoding** and prepared the **embedded** layer.
- Used **CNN and LSTM** for model building as the accuracy obtained was close to 96% .

Customer Behavioral analytics for a Bike Showroom for determining window shopping customers

- Identification of key parameters leading to bike purchase
- Cleaned and pre-processed Data for building **classification** model.
- Built and Tested-**Logistic** Regression, **KNN**, **Naïve Bayes**, **SVM** etc.
- Formulated a machine learning model for determining **probability** of purchase
- Analyzed and performed evaluation on Models for best classification **Accuracy**

Other Projects

- Designed **Recommendation system** for users using **K Means clustering** for a audio streaming company.
- Constructed **classification model** to predict the chances of stroke based on the given health conditions.

EDUCATION

INSTITUTE OF TECHNICAL EDUCATION AND RESEARCH

Apr '12 - Apr '16

B.Tech

CGPA: 9.01

Mechanical Engineering