Mr. V. Zalte

AI BI Scientist (ML , Data Science)

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SUMMARY

An IT experience in historic data and apply statistical concepts to make cross-sectional predictions. Predictive analytics uses many techniques from data mining, statistics, modelling, machine learning, and artificial intelligence to analyse current data to make predictions about future.

KEY SKILLS

- **Programming Language:** Python, SQL
- **Web Stack :** Flask
- **Python/ML Packages**:NumPy,Pandas, Sci-py, Scikit-learn, Seaborn, Flask Matplotlib.
- **Operating System :** Linux, Windows.
- **DataBase:** Hue,MYSQL. 3C(Command, Constrains, Clauses), CRUD operations, Subqueries, Window functions, Joins.

EDUCATIONAL QUALIFICATION

- **BE,** University Of Pune with 8.95 SGPA First Class Dist. (2019)
- **Diploma,** Maharashtra State Board Technical Education with 76.67 First Class Dist.(2016)

MATHS & STATS

- Filter, Wrapper, Embedded Method.
- P-Value, T-Test, Z-Test, ANNOVA test, Chi-Square Test, Hypothesis Testing.
- Probability, statistics, linear algebra, Gradient Descent.

Languages

- English
- Hindi
- Marathi

WORK EXPERIENCE

Worked as a **AI BI Scientist** in Capita , from Mar 2020.

PROFESSIONAL SYNOPSIS

- ☞ A professional with experience in **Python, Data Science**, **Machine Learning, Deep Learning** and **Natural Language Processing** with expertise in Product, Energy and construction mining domain projects.
- ☞ Able to investigate **Data Visualizati**on and **summarization** techniques conveying key findings.
- ☞ Communicates findings and obstacles to team members to achieve best approach
- ☞ Production code with Object Oriented Programming in **Python**.
- ☞ Experience in Web Framework **Flask**
- ☞ Thorough understanding of **Probability** and **Statistics, Bayesian methods.**
- ☞ Experience in data management tools - **Relational and SQL databases.**
- ☞ Knowledge of **Python's Data Analysis** and **Machine Learning Libraries**.
- ☞ Implementation of Recommendation system using Collaborative and Content based filtering.
- ☞ Source code management and Version Control system using **Git** and **GitHub**.
- ☞ Familiar with **Postman** Tool.
- ☞ Strong communication and interpersonal skills. Ability to interact with customers with ease and professionalism.

TECHNICAL SKILLS

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, K-means Clustering.

Deep Learning: Neural Networks, Deep Learning, ANN, CNN, Back Propagation, Activation & loss functions, optimisers, Tensorflow , Keras,

NLP: Text understanding, representation & classification techniques, Text clustering skills**.**

Libraries: nltk, spacy, gensim, textblob, langdetect, googletrans

Techstat: BOW, TFIDF, word2vec, doc2vec, sent2vec, keypharse extraction

Clustering: KMEAN , Hierarchial clustering.

PROJECT DETAILS

Project 1: Predict the percentage of Silica System.
Roles and Responsibilities:

- Understand, analyze, and interpret large datasets.
- Develop advanced programs to extract the data needed, prepare data for further analysis.
- Built the predictive model using various machine learning tools to predict real time percentage of silica with accuracy more than 92%.

Project 2: Photovoltaic module fault detection System.
Roles and Responsibilities:

- Successfully combined SDP with CNN to develop a PV module fault detection system for the common fault types of PV modules
- Search for ways to get new data sources and assess their accuracy.
- Improved service by 12 basis points for client providing relevant product features for them.

Project 3: Real time sentiment analysis.
Roles and Responsibilities:

- Work alongside product manager to identify drawback of service using keyword extraction.
- Collaborated with data engineer and team lead to to create solution to increase feedback.
- Develop algorithm using natural language processing for real time sentiment analysis based on feedback which resulted 15% increase in sales.