Bagul Rahul Madhavrao

Machine Learning Engineer, **Kittiware IT solutions**, Pune

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🏠 **Pune**

CARRIER OBJECTIVE

A curiosity-driven data scientist, eager to leverage machine learning and data analytics to extract meaningful insights, make informed decisions and solve challenging business problems. I ensure to contribute with my knowledge, logical thinking and analytical skills towards the consistent growth and development of the organization, and enhance my experience through continuous learning and teamwork.

PROFILE SUMMARY

- **2+ years** of experience in **Python**, **Data Science and Machine learning.**
- Good Experience in Machine Learning Models with **Python**.
- Good Experience with common data science toolkits like **NumPy** , **Pandas** , **Scipy** and **Scikit-learn**.
- Good Experience in Data analysis and synthesis with **Matplotlib** , **Seaborn.**
- Good Experience in Web Framework **Flask.**
- Good Experience in such Databases **MySQL** .
- Very good understanding of Tableau to Easily build and integrate predictive models into Tableau workflows. Powered by **Machine Learning** (ML), It is predictions and recommendations to used for smarter and accelerated decision-making.
- Very good understanding of deploy or implement models on web servers like **AWS**.
- Very good understanding of **My SQL** as well **SQL.**
- Very good understanding of Source code management and Version Control system using **Git and GitHub.**
- Very good understanding of **Statistics, Probability** and **Mathematics** concepts to approach solving real life problems.
- Strong **Communication** Skills.
- Strong **Leadership** Skills.

PROFESSIONAL SYNOPSIS

- A professional with **2+ years** of experience in **Python**, **Data Science and Machine learning** with expertise in **Predictive Maintenance** domain projects**.**
- Experience in core **Python.**
- Ability to write a clean and production code with **Object Oriented Programming** in **Python.**
- Very good working Knowledge on Python based **libraries**.
- Knowledge of Python's **Data Analysis** and **Machine Learning Libraries**.
- Experience with common data science toolkits.(**Numpy**,**Pandas**,**Scipy**,**Scikit-learn**,**Excel**).
- Experience in Web Framework **Flask.**
- Development of **REST APIs** in **Python.**
- Experience in data management tools - **Relational and SQL databases**.
- Experience in RDBMS like **MySQL** .
- Expert knowledge of SQL **DDL**, **DML**, Stored Procedures, functions.
- Expert in designing Parallel jobs using various stages like **Join**, **Merge, remove duplicates**, **Filter**, Dataset, **Lookup** file set, **Modify**, Aggregator.
- Advanced ability to perform **Exploratory Data Analysis**.

- Able to investigate **Data Visualization** and **summarization** techniques conveying key findings.
- Good to have experience with visualization libraries like **Matplotlib** and **Seaborn.**
- Ability to use **Web Scraping Tools** as **Beautiful Soup**
- Good knowledge of **Supervised** Learning Algorithms (**Linear Regression, Logistic Regression, KNN, Decision Tree, Random Forest, Naive Bayes, SVM**).
- Combine models through **Ensemble** Techniques (**Ad boost, Gradient boost, XG boost**).
- Good knowledge of **Unsupervised** Learning algorithms (**k-means clustering ,PCA**).
- Implementation of **Regularization** techniques like **Lasso and Ridge** in regression**.**
- Thorough understanding of **Probability** and **Statistics**, **Bayesian** methods.
- Experience in Machine Learning techniques, **anomaly detection**, NLP, **text analysis**, Topic Modeling, **Entity Recognition.**
- Ability to process Text Processing using **NLTK** library and other **Natural Language Processing** techniques.
- Sourcecode management and Version Controlsystem using **Git and GitHub.**
- Very good understanding of deploy or implement models in cloud like **AWS**.
- Ability to achieve in-depth understanding of the problem domain and available datasets.
- Implementation of **Recommendation system using Collaborative and Content based filtering**.
- Good knowledge of **Data mining**, **predictive modeling** and **statistical analysis** to analyze and interpret customer behaviors, product performance, **trends** etc.
- Build **predictive models** and machine-learning algorithms.
- Communicates findings and obstacles to team members to achieve best approach.
- Ability to work **independently** and **with team members** from different backgrounds.
- Strong analytic skills related to working with structured/unstructured datasets.
- Good **Analytical** and **problem-solving** skills and **Strong business acumen**.
- Ability to **interact with customers** with ease and **professionalism.**
- Propose solutions and strategies to business challenges.
- Strong **communication** and **interpersonal** skills**.**
- Develop **custom data models** and **algorithms** to apply to data sets.
- Ability to communicate complex data in a simple, actionable way.
- Ability to visualize data in the most effective way possible for a given project or study.
- Strong **verbal** and **written** communication skills.
- Any other related responsibilities assigned to you from time to time.

KEY SKILL

- **Statistics** – Various hypothesis testing, estimation, probability theory, time-series analysis, statisticalmodeling.

- **Machine Learning** – Algorithms for Regression (Linear, Logistic), Classification (Decision Trees, Random forest, XGBoost, SVM, Naïve Bayes, k-NN),PCA, Clustering(k-means, Hierarchical).

- **R** - Implemented ML Algorithms, used packages like dplyr,glmnet, ggplot, caret, boruta, missForest, mice, dummies
- **Python** - ML Algorithms, using packages like Numpy, Pandas, SciPy, Scikit-Learn, Statsmodels, Matplotlib, Seaborn
- **Natural Language Processing –** Text Processing, Web Scrapping, Sentiment Analysis, Regular Expressions, NLTK
- **Deep Learning** – Neural Networks, RNNs, CNNs.
- **SQL** - Performing Basic Queries, Sub-queries, Joins, Aggregation, Statistical Functions.
- **Tableau** – Data Visualization, Forecasts, Tables, Dashboards
- **Big Data** – Basic knowledge of Hadoop, Map Reduce and Spark, along with all the other tools of the eco-system.

CORE COMPENTENCIES

- **Programing Languages** - Python, OOP's with C++, Data Structure, R, Java.
- **Machine/ Deep Learning** Libraries - Pandas, Numpy, Scikit-learn, Pycaret, Keras, Statsmodels, Beautiful Soup
- **Data Visualizations** - Matplotlib, Seaborn, Plotly, Tableau
- **Database Technologies/ Big Data Frameworks** - MySQL, NoSQL, Spark, PySpark, Hadoop
- **Natural Language Processing Libraries** - NLTK, TextBlob, Spacy, FastText, Gensim
- **Web Frameworks/ Cloud Services** - Flask, Django, Streamlit, API
- **IDE/ Platforms** - Jupyter Notebook, PyCharm, Spider, Sublime Text, R Studio, Eclipse, Google Colab, Kaggle.

PROFESSIONAL WORK EXPERIENCE

- ❖ Organization : **Kittiware IT solutions** ,Pune
- ❖ Designation : **Machine Learning Engineer**
- ❖ Duration : Worked as intern in Kittiware IT Solutions from **Dec 2019 to May 2020**.
  Working as **Machine Learning Engineer** from **June 2020 to till date**.

EDUCATIONAL QUALIFICATION

- ❖ **Bachelor of Engineering** from Pune University in **2020**.

PROJECT

Project Name : Classification Of Machine Failure
Domain : Predictive Maintenance
Client : USA

Project Description:
In industries, re-evaluating their maintenance schedules is necessary for this digitalization era as smart as possible for production enhancements. Predictive maintenance offers great opportunities to business for a smarter and more digital facility. The analysis is to create a model to predict when the machine is more likely to fail.

Responsibilities :
- **Collected**, **analyzed** and **interpreted raw data** from various data sources.
- Work closely with various teams across the company **to identify and solve business challenges** utilizing large structured, semi structured, and unstructured data in a distributed processing environment.
- Search for ways to **get new data sources** and assess their accuracy.
- **Assess the effectiveness** of new data sources and **data gathering techniques**.
- **Coordinate** with different **functional teams** to implement models and monitor outcomes.
- Use **predictive modeling** to increase and optimize customer experiences, **revenue generation**, ad targeting and other business outcomes.
- Used **statistical analysis to determine data behavior**.
- Perform **quantitative analysis** of trends to predict risk.
- **Analyzed data** to discover **trends and patterns**.
- Used **machine learning** on the data to create **predictive models**.
- **Produced insights** using **supervised machine learning**.
- Develop processes and tools to monitor and **analyze model performance** and data accuracy.

STRENGTHS

- Self-motivated to succeed & to learn the new things.
- Able to work in Team.

- Positive approach and capability to learn new things.
- Comprehensive problem solving abilities.

PERSONAL DETAILS

Name	: Bagul Rahul Madhavrao
Current Address	:12/2A, Vrudavan Colony, Chinchwade Nagar, Pune ,Pin-411033
Date of Birth	: 28/01/1994
Nationality	: Indian
Language Known	: English , Hindi & Marathi.

IMPORTANT NOTE

I am not limited to only these skills. I am always ready to learn new skills according to project's need and industry demand

Regards,

Place: Pune   **Bagul Rahul Madhavrao**