SIDDHARTH KARANDE

Data scientist

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Balewadi, Pune 411045 ⌂

SUMMARY

Experienced Data scientist with **3+ years** of expertise in utilizing advanced analytics and machine learning to derive insights from complex data. Skilled in Python and statistical techniques, delivering end-to-end solutions for informed business decisions. Effective communicator, adept at translating technical findings for diverse stakeholders, and committed to ongoing learning in the dynamic field of data science.

EDUCATION

Savitribai Phule Pune University

BE(Electronics & Telecommunication)
2012–2016

SKILLS

- **Python, SQL**
- Pandas, Numpy, Seaborn, Scikit-Learn, Matplotlib, Scipy.
- **Machine learning**
- Supervised and Unsupervised Algorithm, Clustering, Ensembling, Feature Engineering, Data Analysis, EDA.
- Naïve Bayes, KNN, Decision Tree, Linear, Logistic
- Random Forest, Ridge, Lasso
- K-Means, SVM, PCA.
- Bagging, Boosting
- **Deep Learning**: CNN, RNN, ANN, Activation functions Neural Networks, Back Propagation, Transfer Learning
- **TenserFlow, PyTorch, Keras**
- **Statistics**: A/B testing, Probability, Hypothysis Testing, Z-test, T-Test, Chi-Square test and ANOVA.
- **NLP:** Text representation techniques, NLTK, Text classification. **NLTK, SPACY, Gensim, Textblob, googletrans.**
- **LLM**
- **PowerBI**: cleansing, wrangling, visualization, **ETL**
- **Jira**
- **Windows, Linux**
- **Excel.**

PROFESSIONAL EXPERIENCE

Data scientist 3.2 Years

Globant Dec 2021 to Present Date

- Acquire and gather relevant data from various sources, including databases, APIs, and external datasets
- Conduct exploratory data analysis to understand the characteristics, patterns, and trends within the data
- Create new features or transform existing ones to enhance the performance of machine learning models.
- Design, develop, and implement machine learning models to solve specific business problems or answer research questions
- Assess the performance of machine learning models using appropriate metrics. Fine-tune models for better accuracy, precision, recall, etc.
- Communicate findings effectively through the creation of data visualizations and dashboards. Use tools like Matplotlib, Seaborn, or PowerBI.
- Develop predictive models to forecast future trends, outcomes, or behaviors.

PROJECTS

Project 1: Healthcare Resource Allocation Optimization

Description: The project focuses on optimizing healthcare resource allocation by analyzing patient demographics, disease prevalence, and healthcare facility capacity. By identifying areas with high healthcare demand and limited resources, the objective is to allocate resources efficiently to improve access to healthcare services and patient outcomes.

Roles & Responsibilities: Analyzing healthcare data to identify patterns, trends, and opportunities for optimization. Developing predictive models for resource demand forecasting and optimization strategies.

Develop machine learning models for resource allocation based on historical data. Conduct data preprocessing, feature engineering, and exploratory data analysis. Evaluate and select appropriate algorithms for predictive modeling. Optimize models for accuracy, interpretability, and scalability.

Skills:
Statistical analysis, machine learning, data visualization, programming (e.g., Python), and domain knowledge in healthcare.

Project 2: Supply Chain Optimization

Description: This project aims to optimize supply chain operations by analyzing supply chain data, including inventory levels, production schedules, and transportation routes. By identifying inefficiencies and bottlenecks in the supply chain, the objective is to improve overall efficiency, reduce costs, and enhance customer satisfaction.

Roles & Responsibilities:
- Analyzing complex datasets, building predictive models, and identifying patterns to provide insights that aid in decision-making. Develop predictive models for demand forecasting, inventory optimization, and logistics planning.
- Conduct data preprocessing, feature engineering, and exploratory data analysis.
- Collaborate with domain experts to understand supply chain processes and challenges.
- Select and implement appropriate machine learning algorithms for optimization.

Skills: Statistical analysis, machine learning, data visualization, programming (e.g., Python), and domain knowledge in supply chain.

Project 3: Predictive Analytics for Financial Portfolio Management

Description: This project focuses on using predictive analytics to optimize financial portfolio management strategies. By analyzing historical market data, economic indicators, and portfolio performance metrics, the goal is to develop predictive models that can forecast asset returns, optimize portfolio allocations, and maximize risk-adjusted returns for investors.

Roles & Responsibilities:
- Analyzing historical financial data to identify patterns, correlations, and trends that can inform investment decisions and portfolio optimization strategies.
- Develop predictive models for financial market trends, asset pricing, and portfolio optimization.
- Conduct statistical analysis and quantitative research on financial data.
- Implement machine learning algorithms for risk assessment and return prediction. Stay updated on financial market trends and apply domain expertise to model development.

Skills: Statistical analysis, machine learning, data visualization, programming, and domain knowledge in finance and investment.

PERSONAL DETAILS

- **DOB :** 03/02/1995
- **Languages :** Marathi, Hindi, English
- **Hobbies :** Chess, Reading Books, Bike Riding
- **Marital Status :** Single