

# Aniket Sonale

Junior Data Scientists,  
StanceCode Technology  
Pune.

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## SKILLS:-

Data Science  
Machine Learning  
Deep Learning  
Statistics

## IDE:-

Jupyter Notebook  
PySpyder  
PyCharm

## PROGRAMMING:-

Python Programming  
C Programming  
Basic Oop's

## LANGUAGES KNOWN:-

English  
Marathi  
Hindi

## INTERPERSONAL SKILLS:-

Team Work  
Problem solving and  
Decision making  
Work Ethic  
Leadership

## Resume

### OBJECTIVE:-

Highly analytical individual with strong communication and programming skills. Interested in the position of Data Scientist where solid computer science background and understanding of machine learning will be utilized in model Development.

### PROFESSIONAL SUMMARY:-

- Overall 2+ years of experience in building predictive analytics solutions for various types of business solutions
- Working knowledge of machine learning areas and techniques: **supervised learning, unsupervised learning, NLP, outlier detection.**
- In depth knowledge and working experience on libraries used such as **NumPy, pandas, Matplotlib, Scikit-learn, TensorFlow, OpenCV etc.**
- In depth knowledge and experience in **statistics** and **machine learning algorithms.**
- In depth knowledge about supervised learning algorithms like **Linear Regression, Logistic Regression, Decision Tree, Random Forest, Naive Bayes, Support Vector Machine (SVM), K-Nearest Neighbor (KNN)** etc.
- In depth knowledge about unsupervised learning algorithms like **K-means clustering, neural networks, principal component analysis.**
- In depth understanding of **image processing, pattern recognition methods**
- Understanding about various deep learning methods like **ANN, CNN, RNN**
- Working experience in deep learning algorithms on platform like **Tensor flow, Keras** is necessary
- Good working experience in **python.**
- Experience in open source frameworks like **flask**, aware about **Django.**
- Working experience in IDE'S like **pycharm, Jupiter notebook, spyder.**
- Hands on experience with **MySQL** for database management and **Tableau** for data visualization to detect and solve the business problems.

### EXPERIENCE:-

**StanceCode Technology, Pune** — Junior Data Scientist

Jan 2019 - PRESENT

Working as a junior data scientist since January 2019 in the machine learning and deep learning domain.

#### Responsibilities:

1. Involved in Data Preprocessing Techniques for making the data useful for creating Machine Learning models
2. Translate product requirements into analytical requirements/specification, design and develop required functionality.
3. Involved in creating various regression and classification algorithms by using various sklearn libraries such as Linear Regression, Decision Trees, Naive Baye's and Random Forest etc.

## TECHNICAL SKILLS:-

- Database Connectors : MySQL
- Data Analytics Libraries : NumPy, SciPy, Pandas
- Plotting Libraries : Matplotlib, Seaborn
- Machine Learning and NLP : Scikit-learn
- Boosting Libraries : Xgboost, Adaboost
- Deep Learning : TensorFlow, Keras
- Data Visualization Tool : Tableau
- Framework Software : Aware about Flask
- Ensemble Technique : Bagging, Boosting

## EDUCATIONAL QUALIFICATION:-

- B.E. in Electronics and Tele-Communication Engineering from Flora Institute of Technology, Pune in 2016 with 62.66%.
- HSC from NES Science College, Nanded in 2012 with 60.00%.

## PROJECTS SUMMARY:-

### 1. Project Title: Signature comparison using Siamese network

#### Description:

The objective of our network is to derive a new method to understand **two signatures are similar or dissimilar**, using **Deep Learning methods**. It has stack of convolution and pooling layers and dropout layers. The sister network takes same weight and biases as the original network. **Siamese network with Ensemble techniques approach**. Essentially means running the same network twice. It takes the input image pair and produces two 2048-D vector as output. The network learns to encode similar input images closer and dissimilar one further apart from each other in the vector space. Two vectors are subtracted element wise to form a single 2048-D vector. The number of hidden layers is hyper parameter and it can be tuned well to get the best result. We are able to achieve **90% above accuracy**.

#### Roles and responsibilities:

- Involvement in various aspects of the software development lifecycle including requirements capture, design, implementation.
- Involved in designing the database Structure and LLD.
- Work with Senior Engineers to understand software requirements and timelines.
- Actively Involved in Scrum Meeting to discuss the Issue.
- Coding of different modules as per the business requirements and preparing technical specifications documents for those functionalities.
- Involved in fixing application defects to ensure timely delivery along with writing unit test cases.
- Actively participated in standup project status meetings, sprint meetings or client calls.

### Algorithms

- Siamese network with Ensemble techniques
- OpenCV

## 2. Project Title: Battery Remaining Useful Life Prediction

### Description:

Predictive analysis to understand impact of various Electrical parameters on Life of Battery. The aim is to derive a new method to predict the life of a lithium ion cell, in terms of cycle life, **using machine learning approach**, by identifying the degradation mechanisms in terms of electrical parameters of a cell, without a need to derive complex physics or chemistry based models. Proposed method is to develop the prognosis models **using classification and then regression algorithms** specialized on each class to increase the prediction accuracy using capacity degradation as a health indicator of a cell. Errors for each class specialized regression are approximately **5% error** for each class.

### Roles and responsibilities:

- Understanding problem statement and approach
- Collection of xDRs and Data manipulation
- Exploratory Data Analysis
- Feature Engineering
- Predictive modeling
- Model maintenance and reform
- Presentation – communicating insights and result with authorities

### Algorithms

- Linear regression, Logistic Regression
- Lasso, Elastic Net Regression
- Stacking of Classification model and Regression Model

## PERSONAL PROJECTS:-

- Flight Fare Prediction
- Stock Sentiment Analysis (NLP)

### PERSONAL DETAILS:-

**Date of Birth** : 05/05/1994  
**Gender** : Male  
**Father's Name** : Gangadhar Sonale  
**Mother Tongue** : Marathi.  
**Nationality** : Indian.  
**Address** : Pratibha Niwas Plot No. 1B, VikasNagar, Nanded - 431 605

### ENDORSEMENT:-

I hereby affirm that all the information provided above is true to the best of my knowledge.

Aniket Sonale  
Place: Pune, Maharashtra