

# Shrikant Gade

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## Education

### Jagran lakecity university

Bachelor of Technology, GPA: 7.68/10

Major: Computer Science and Engineering, Hons.: Artificial Intelligence

Bhopal, Madhya Pradesh

2018 -2022

## Experience

### El Systems

Machine learning & deep learning intern

IIT(BHU), Varanasi

May-Jul 2021

- Developed and optimized deep learning models for diverse datasets including MNIST, spam detection, and handwritten OCR, achieving high classification accuracy.
- Built a time-series forecasting model for stock market prediction using LSTM and RNN architectures.
- Implemented real-time object classification and face detection systems using TensorFlow and OpenCV, improving detection speed and accuracy for video streams.
- Conducted end-to-end machine learning workflows: data preprocessing, model training, evaluation, and visualization of results.

### Harbour Technologies

Data science intern

New Delhi

Jan-Apr 2022

- Collaborated with a team of data scientists to build and deploy machine learning and deep learning solutions for the banking domain, focusing on real-world business problems.
- Designed and implemented models for image classification and image generation using GANs and autoencoders, contributing to innovation in synthetic image data creation.
- Applied advanced EDA, feature engineering, and model tuning techniques to improve model performance across various tasks.
- Engaged in problem scoping, data cleaning, model selection, and performance evaluation in both supervised and unsupervised settings.

## Projects

### Risk Analysis

- This project aims to develop a basic understanding of risk analytics in banking and financial services and understand how data is used to minimize the risk of losing money while lending to customers
- **TECHNOLOGIES USED:** Python, EDA, Data Visualization, Data Cleaning
- **LIBRARIES USED:** Pandas, NumPy, Seaborn, Matplotlib

### Sentiment Analysis

- This project aims to computationally identifying and categorizing opinions expressed in a piece of text, especially in order to determine whether the writer's attitude towards a particular topic, product, etc. is positive, negative, or neutral
- **TECHNOLOGIES USED:** Python, Text classification, SVM, Random Forest, Bag of words, TF-IDF features, XG-Boost
- **LIBRARIES USED:** NLTK, NumPy, Pandas

### Object identification

- This project aims to identify the different objects
- **TECHNOLOGIES USED:** Python, EDA, Feature Engineering, Feature Selection, Model Selection (XGBoost, SVC, Random Forest, Logistic Regression, KNN, AdaBoost)
- **LIBRARIES USED:** Pandas, NumPy, Seaborn, Matplotlib

### Sizylle: A virtual Assistant

- A Semi functional virtual assistant which works on voice commands.
- Sizylle is a virtual assistant which follow you speak up commands like play music, open camera, location also answers to questions like what is corona etc.
- This is a python-based project that works on machine learning libraries.

## Skills Summary and Coursework

**Development and tools:** Python,R, SQL, Version Control, Shell Scripting, Linux, Power BI, Tableau

**Feature engineering:** Outlier Detection (IQR, Z-score, Percentile), Encoding (One-Hot, Label, Ordinal), Handling Imbalanced Data (Under/Oversampling, SMOTE), Feature Scaling (Standardization, Normalization), Imputation, EDA

**Libraries and frameworks:** Numpy, Pandas, Seaborn, Matplotlib, scikit-learn, TensorFlow, Keras, OpenCV

**Computer vision:** Image Segmentation, Image Classification, Object Detection, Feature Extraction, Biomedical Image Analysis, Deep Learning for Image Processing

**Statistical techniques:** regression analysis, time series analysis, optimization, simulation, Markov chain Monte Carlo, stochastic models, Bayesian inference, hypothesis testing, cluster analysis, experimental design, multivariate analysis, random forests, decision trees, neural networks, reinforcement learning

**Other skills:** Database Management, Data Visualization, LLMs, Gen AI, Data pipelines, MLops, model deployment, Interdisciplinary Research