Shrikant Gade

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Profile Summary

Data Science *enthusiast passionate about transforming Raw Data into actionable insights by leveraging Data Preprocessing, Exploratory Analysis, Statistical Methods, Visualizations, and Machine Learning models to solve real-world problems.*

Education

Jagran Lakecity University — *Bhopal, Madhya Pradesh*

Bachelor of Technology, GPA: 7.68/10 — *2018 - 2022*

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

Experience

EI Systems — *IIT(BHU), Varanasi*

Machine Learning & Deep Learning Intern — *May-Jul 2021*

- **Handle missing values and inconsistencies** to improve the reliability and usability of the dataset.
- **Identify and remove duplicate records** to maintain data accuracy and eliminate redundancy.
- **Explore data patterns, trends, and distributions** using statistical methods to gain initial insights.
- **Visualize key metrics and anomalies** through charts and graphs for better interpretation and decision-making.

Harbour Technologies — *New Delhi*

Data Science Intern — *Jan-Apr 2022*

- **Clean and preprocess datasets** by handling missing values, fixing inconsistencies, and removing duplicates for high-quality analysis.
- **Perform exploratory data analysis (EDA)** to identify key trends, correlations, and outliers using statistical methods and visualization tools.
- **Apply machine learning algorithms** like regression, classification, and clustering to build and evaluate predictive models.
- **Present insights and model outcomes** through clear visualizations, dashboards, and reports to support data-driven decisions.

Projects

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.

COVID-19 India Tracker

- This COVID-19 India Tracker Dashboard provides a real-time overview of the pandemic across the country, displaying key metrics like confirmed cases, recoveries, deaths, and active cases. It features interactive time-series visualizations and statewise breakdowns, helping users track trends, compare regional data, and understand the overall impact. Built using Python and visualization libraries, it offers a clean and informative interface for public awareness and analysis.
- **TECHNOLOGIES USED**: Python, Ploty, Data Visualization, Data Cleaning.

Mini Beast Pentesting Tool

- Minibeast is a Python-based intelligent scanning tool that automates vulnerability detection in web applications by orchestrating system-level tools and analyzing security threats through rule-based logic and smart execution flows.
- **TECHNOLOGIES USED**: Python, VAPT tools, Linux.

Early Detection of Parkinson's Disease using Machine Learning

- This project aimed to develop a classification model to detect Parkinson's disease based on visual patterns in spirals, waveforms, and handwriting obtained during clinical assessments. Although pen pressure is a key factor in diagnosing the disease, this study explored whether visual characteristics alone could effectively indicate the presence and severity of Parkinson's.
- **TECHNOLOGIES USED**: Python, Computer Vision, Image Preprocessing, Machine Learning, Model Evaluation.
- **LIBRARIES USED**: Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn.

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, PyTorch.
- **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, Stochastic Models, Bayesian Inference, Hypothesis Testing, Cluster Analysis, Multivariate Analysis, Random Forests, Decision trees, Neural networks.
- **Other skills:** Database Management, Data Visualization, LLMs, Gen AI, Data pipelines, MLops, Model deployment, Interdisciplinary Research.