

Dr. Shubhangi Borse

✉ shubhangiborse@gmail.com

📍 Pune, Maharashtra

📺 Medium

℞ Research Gate

☎ +91 9404420889

🌐 LinkedIn

🔄 GitHub

👤 Google Scholar

Profile

Enthusiastic and detail-oriented Data Scientist with a solid academic background in statistics, machine learning, and programming. Possesses strong analytical skills, a passion for data-driven problem solving, and a keen interest in leveraging emerging technologies for extracting meaningful insights. Demonstrates strong communication skills and thrives in fast-paced, team-oriented environments with multiple deliverables. Capable of quickly learning in diverse technical and creative settings, adept at delivering quality work under tight deadlines. Eager to apply academic knowledge in practical, real-world scenarios.

Skills

Soft Skills

- Skilled in understanding business requirements and designing documents.
- High degree of flexibility, ability to learn quickly, and be productive in new areas.
- Effective communicator with strong analytic skills.

Data Analysis

Strong skills in Pandas, NumPy, and data visualization (Matplotlib, Seaborn, Plotly).

MongoDB and MySQL — Competent

Good hands-on

Programming Languages — Expert

Proficient in Python

Machine Learning

Very good understanding of ML algorithms, including regression, decision trees, classification, and clustering; experience with Scikit-Learn

Deep Learning

Basic understanding of CNNs, RNNs, and transfer learning with PyTorch

Data Preprocessing

Skilled in handling missing data, outliers, normalization, and feature engineering.

Certificates

Master of Data Science Program (Dec 2023-May2024) ☑ — | GUVI Geek Networks, IITM Research Park

Projects

Nature Image Classification using PyTorch

Deep learning -CNN Model using pytorch

Developed and implemented a Nature Image Classification project, utilizing a dataset of 15,000 images classified into 6 categories: buildings, glaciers, sea, mountain, forest, and street. Demonstrated the effectiveness of deep learning and PyTorch by systematically collecting and preprocessing data, and developing and refining a Convolutional Neural Network (CNN) model. Achieved 92% accuracy with a feed-forward neural network.


Technology: PyTorch

Github: <https://github.com/shubhangiborse/image-cnn-model> ☑

Phonepe Pulse Data Visualization and Exploration

The Phonepe Data Visualization project is a Python-based solution that extracts data from the Phonepe Pulse Github repository, transforms and stores it in a MySQL database, and displays it through an interactive dashboard using Streamlit, Plotly and a few other visualization and data manipulation libraries.


Technologies: Python, MySQL, Streamlit, PhonePe Pulse Dataset

Github: <https://github.com/shubhangiborse/PhonePe-Pulse> 


Singapore Resale Flat Prices Predicting

The objective of this project is to develop a machine learning model and deploy it as a user-friendly web application that predicts the resale prices of flats in Singapore. This predictive model will be based on historical data of resale flat transactions, and it aims to assist both potential buyers and sellers in estimating the resale value of a flat.




Technologies: Python, Streamlit, Render Cloud Hosting, Scikit Learn, Xgboost

GitHub: <https://github.com/shubhangiborse/Singapore-resale-flat-price-prediction> 

Professional Experience

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| 2023/07 – present USA, Chicago | Chemistry & Material Science Consultant (Freelancer) <i>PreScouter, Inc. (Remote work)</i>  |
| 2018/07 – 2021/06 Pune, India | Director (Self-employed) <i>Eminere System Pvt. Lmt. (IT solutions)</i> Worked for a finance Company and built (40 pages in digital PDF form) using Adobe InDesign tool and extracted filled form information and stored into MySQL |
| 2012/09 – 2013/10 Pune, India | Research Assistant <i>Department of Chemistry, Savitribai Phule Pune University (India)</i> |
| 2007/09 – 2011/10 Pune, India | Project Research Assistant The government of India project 'The Pesticide Encyclopedia' worked under the guidance of Dr. Vasant Gowariker. |

Education

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|----------------------------------|---|
| 2013/03 – 2016/05 Pune, India | Ph.D (Chemistry) <i>Department of Chemistry, Savitribai Phule Pune University (India)</i>  |
| 2010/11 – 2011/12 Pune, India | M.Phil (Chemistry) <i>Department of Chemistry, Savitribai Phule Pune University</i>  |
| 2005/06 – 2007/07 Pune, India | M.Sc. Physical Chemistry <i>Department of Chemistry, Savitribai Phule Pune University</i>  |

Publications

Photochemically assisted one-pot synthesis of PMMA embedded silver nanoparticles: antibacterial efficacy and water treatment

Shubhangi Borse, Mayur Temgire, Ayesha Khan, Satyawati Joshi
RSC advances 6 (61), 56674-56683

Enhanced in vitro cytotoxicity and cellular uptake of DNA bases functionalized gold nanoparticles in HeLa cell lines

Shubhangi Borse, Satyawati Joshi, Ayesha Khan
RSC advances 5 (18), 13402-13410

Optical and structural properties of PVA capped gold nanoparticles and their antibacterial efficacy

Shubhangi D. Borse, Satyawati S. Joshi*
Advanced Chemistry Letters 1 (1), 15-23

Rapid green synthesis and biological activity of silver nanoparticles using Adhatoda vasica leaf extract

Suvidya Ranade, Pravin Likhankar, Shubhangi Borse, Satyawati, Joshi
Advanced Science, Engineering and Medicine 5(4), 319-324