BHUSHAN SANJAY ZADE

PUNE INDIA | 9623613486 | bhushanzade02@gmail.com
GitHub | LinkedIn | Portfolio | LeetCode | HackerRank

SUMMARY

Graduate with hands-on experience in data analysis, machine learning, deep learning and statistical modelling through academic and personal projects. Strong foundation in statistics, and programming. Interested in collaborating on meaningful analytical work in fast-paced environments and continuously learning advanced AI/ML techniques

ACADEMIC PROJECT

Algonix Machine learning Library | Pune, India | 01/2025 – Present | Team size: 2

- Developed a machine learning library from scratch, implement classic ML algorithms such as simple linear regression, multiple linear regression, gradient descent, stochastic gradient descent, and logistic regression
- Added support for performance evaluation using Mean Squared Error (MSE), Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), R^2 Score, and Adjusted R^2 Score.
- Compared outputs of custom implementations from the **Algonix** library with equivalent models from **scikit-learn**

SMS Fraud Detection System | Pune, India | 04/2025 – Present | Team size: 1

- Developed a machine learning-based SMS fraud detection system to identify and classify fraudulent messages from machine learning algorithms
- Pre-processed SMS data by cleaning, tokenizing, and vectorizing text with techniques like TF-IDF and Word2Vec
- Implemented machine learning algorithms such as Logistic Regression, Random Forest, and Support Vector Machines (SVM) to create an effective classification model
- Evaluated the model's performance using metrics like precision, recall, F1-score, and accuracy to optimize fraud

Numerical Computing Library | Pune, India | 03/2025 – Present | Team size: 1

- Implemented fundamental operations for vectors and matrices including multiplication, inversion, LU decomposition, and Gaussian elimination. Developed support for vector and matrix arithmetic including addition, subtraction, multiplication, and scalar operations.
- Built numerical methods such as Newton-Raphson method for root-finding, numerical differentiation, and integration techniques Developed numerical differentiation methods using finite difference techniques (forward, backward, central). Demonstrated use of the library through sample programs for educational and academic purposes

SKILLS

- **Languages**: Python, SQL, R, C, C++
- **Libraries & Frameworks**: Langchain, Pytorch, TensorFlow, NumPy, Pandas, scikit-learn, FastAPI, Nltk
- **Machine Learning**: EDA, Supervised & Unsupervised Learning, NLP, Statistical Inference
- **Tools & Platforms**: Jupyter Notebooks, Git, GitHub, Docker, Kaggle, Google collab

EDUCATION

MSC Scientific Computing | 8.36 SGPA | 05/2026
Scientific Computing, Modelling & Simulation | SPPU | Pune India

BSC Computer Science, Statistics, Mathematics | 7.09 CGPA | 05/2024
Government Institute of Science Nagpur | RTMNU | Nagpur India

HSC | 92 % | 2021 | and | SSC | 2019 | 80.80%
Tejasvi Vidya Mandir high school & Jr. College | Nagpur India