

GAURANG BANDODKAR

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OBJECTIVE

A Data Science postgraduate student seeking opportunities to learn and contribute in a collaborative environment.

PROJECTS

Drug–Target Link Prediction (Seminar):

Presented why raw graph structures cannot be directly used in machine learning. Demonstrated how Graph Convolutional Networks (GCN) generate node embeddings. Implemented a GraphSAGE encoder + dot-product decoder in PyTorch Geometric on the Yamanishi dataset. Evaluated link prediction with ROC-AUC, AUPR, Accuracy, Specificity, and Precision@k.

Explainable AI (XAI) (Seminar):

Presented concepts of local vs. global explanations, and model-agnostic vs. model-specific interpretability approaches. Demonstrated LIME (Local Interpretable Model-agnostic Explanations) with an SVM classifier on the Iris dataset. Visualized feature contributions to predictions, highlighting how XAI helps validate and trust ML models.

Lung Capacity Prediction:

Built a linear regression model on the Lung Capacity Dataset to analyze how factors like Age, Height, Smoking Status, and Gender influence lung capacity.

Car Price Modeling:

Compared Linear Regression, Random Forest, and Decision Tree models on the car price dataset. Showed that when regression assumptions are met, simple models can outperform more complex models.

SKILLS

Programming and Tools	Python (NumPy, Pandas, Matplotlib), R, MySQL, GitHub, Excel
Machine Learning	Support Vector Machine classification
Platforms	VS Code, Google Colab, Jupyter Notebook
Deep Learning	Convolutional Neural Networks (CNN), Natural Language Processing (NLP)

EXPERIENCE

Technical Content Writer Lester Infoservices Pvt. Ltd.	Oct 2022 - Aug 2023 <i>Navi Mumbai</i>
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- My work involved writing product description matter for companies providing sensors, actuators, pcb's, raw materials, turnkey integrators, repair service, mechanical workshop capabilities, as well as logistic services.

EDUCATION

M.Sc. Data Science, Prasanna School of Public Health, MAHE	2024 - 2026
B.E. Mechatronics, University of Mumbai	2017 - 2021

CERTIFICATIONS

- Excel Skills for Business - Essentials
- Excel Skills for Business - Intermediate 1

EXTRA-CURRICULAR ACTIVITIES

- Volunteer, Centre for Advanced Research in Applied Mathematics and Statistics
- Applied appropriate statistical methods (e.g., sample size calculation, parameteric, and non-parametric tests) and documented statistical consultations as part of the academic training, involving real-world data.