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| Pratik Dhameliya  \*28/07/1998, Gujarat, India [pratik.dhameliya@stud.uni-goettingen.de](mailto:pratik.dhameliya@stud.uni-goettingen.de) 0176 47175556 Albrecht-Thaer-Weg 8B,37075 Göttingen  [Github Logo - Free social media icons](https://github.com/PratikHdhameliya) ABOUT ME I am a highly driven Master’s student in Mathematical Data Science with a robust foundation in advanced techniques, including machine learning, deep learning, and data science. With hands-on experience in Python, R, SQL, and Power BI, I have developed and optimized data-driven solutions that enhance insights and decision-making. My practical work, demonstrated through a portfolio of projects, showcases my ability to apply these advanced techniques to real-world problems and drive impactful results.  **Projects**  - [Generalized Linear Models for Academic Performance using R-studio](https://github.com/PratikHdhameliya/Stochastic_lab_course_2/blob/main/19_03_2024/linear_model.R)  - [Dimensionality Reduction with PCA and t-SNE](https://github.com/PratikHdhameliya/Machine-Learning-2023/blob/main/Practical%205%20-%20Dimensionality%20Reduction%20with%20PCA%20and%20t-SNE.ipynb)  - [Variational Autoencoders for Fashion MNIST](https://github.com/PratikHdhameliya/Deep-learning-2023/blob/main/Exercise%20Sheet%205%20-%20Variational%20Autoencoders.ipynb)  **WORK-EXPERIENCE**  **Lecturer**  *J.B. Dharukawala Mahila Arts College, Surat, India* **01/2022 – 03/2022**  Delivered comprehensive instruction on key data science components like hypothesis and significance testing, probability distributions, and statistical quality control. Taught statistical methods such as linear programming, pivotal for strategic decision-making in data science.  **Lecturer**  *Sutex Bank College Of Computer Application, Surat, India* **10/2021 – 04/2022**  Taught subjects including Boolean Algebra, Mathematical Logic, Functions, Matrices and Determinants, Set Theory. Managed homework assignments and conducted internal exams using Microsoft quizzes.  **EDUCATION**  **Master of Mathematical Data Science**  *Georg-August-Universität Göttingen* **10/2022 – current**  Coursework includes Machine Learning, Deep Learning, Statistical Foundation of Data Science II, Stochastic Lab Course II, Matrix Method in Data Science, Visualization, Functional Analysis, Operations Research. Seminars: "Cross Entropy", "High-dimensional FFT: Fourier Partial Sums for Smooth Multivariate Functions"  **Bachelor of Science in Mathematics**  *Veer Narmad South Gujarat University, Surat, India* **06/2015 – 04/2018**  Maths, Statistics, Physics, English | **IT- Skills:**  **Programming:** Python, R-Studio, SQL  **BI Tools:** Power BI (Beginner)  **Software:** MS Office 365  **Libraries/Frameworks:**  Scikit-learn, Scikit-image, TensorFlow, Keras, Pandas, Matplotlib, Seaborn, Torchvision, SciPy, Fastprogress, Imageio, PyTorch, Torch  **Cloud Deployment & Containers:**  Azure, GitHub, AWS  **Machine learning/Deep Learning:**  **Techniques:** Regression, Classification, Tree-Based Methods, Multi-Layer Perceptron, Convolutional Neural Networks, U-Net, VGG, ResNet **Methods:** Clustering, PCA, t-SNE, Hyperparameter Tuning, Transfer Learning  **Statistical Analysis and Modelling:** Generalized Linear Models, Expectation Maximization, Kernel Density Estimation, SVD-based Classification, Spectral Clustering for Image Segmentation, Support Vector Machine (SVM) using the Gaussian Kernel  **Linguistic :**  **Deutsch:** A2, **Englisch:** C1,  **Hindi:** Native **Gujarati:** Native |