

# Pratik Sanjay Kulkarni

## Data Scientist & Analytics

 9356636815  LinkedIn  GitHub  Email  Portfolio

### PROFESSIONAL SUMMARY

- Experienced data scientist **proficient in AI and ML** with expertise in **Python, SQL** data analysis libraries like **Pandas** and **NumPy**.
- Skilled in machine learning frameworks such as **TensorFlow, Keras, PyTorch** and **Scikit-learn**.
- Adapt at data visualization using tools like **Matplotlib** and **Seaborn**, transforming complex data into actionable insights.
- Extensive experience in natural language processing (**NLP**) **utilizing NLTK**, including sentiment analysis and text classification.
- Committed to lifelong learning, currently expanding knowledge in **generative AI** and **large language models (LLMs)**.

### PROFESSIONAL EXPERIENCE

#### Data Science Intern

03/2024 – present | Bengaluru - Remote

##### NullClass

##### Roles and Responsibilities :

- Implementing machine learning algorithms **OpenCV** interpret own datasets, using **yolo**
- Collaborated with **cross-functional** teams to develop and deploy predictive models that increased operational efficiency by **40%** and reduced processing time by **25% within** six months.
- Playing a key role in the development of a natural language processing(**NLTK**) based translation app, for improving customer engagement and satisfaction.
- Conducting data preprocessing and cleansing activities, ensuring high-quality data inputs for machine learning models.

#### AI/ML Intern

08/2023 – 01/2024 | Pune

##### Internship Studio

##### Roles and Responsibilities :

- To build a machine learning regression to predict **youtube adview** count based on other youtube metrics.. Clean the dataset by removing or replacing missing values and outliers.
- Normalize your data and split the data into training, validation and test set in the appropriate ratio.
- Use linear regression, **Support Vector machine** for training and get errors.
- Use Decision Tree Regressor and Random Forest Regressors.
- Used deep learning model for getting better results and check model performance using techniques.
- Build an artificial neural network and train it with different layers and hyperparameters.

### SKILLS

#### Data Science and Machine Learning

Data gathering, Data cleaning, EDA, Feature engineering, Feature selection and Extraction, Supervised and Unsupervised learning

#### Libraries and Frameworks

Numpy, Pandas, Matplotlib, Seaborn, BeautifulSoup, request, Scikit-learn, Flask, TensorFlow, Keras, PyTorch, NLTK, OpenCV

#### Languages and Tools

Python, SQL, Git, GitHub

#### Tools for Data Visualizaion

Tableau, Power bi, Excel



#### Mathematics for ML and DL

Statistics, Probability, Linear algebra

#### Databases

MySQL, PostgreSQL, XAMPP

### CERTIFICATES

**Data Science:**  Certified in Master in Data Science. • **Python:**  IBM certification in Python

### PROJECTS

#### 1.Car price prediction [Source code](#)

##### Roles and Responsibilities:

- Selects the appropriate machine learning algorithms (Linear Regression and Lasso Regression).
- Cleans, preprocesses, and analyzes the dataset.
- Evaluates the model's performance using relevant metrics.
- Implements feature selection using **Lasso Regression** for better transparency and efficiency.
- Evaluated model performance using **R-squared (R<sup>2</sup>)** metrics to ensure accuracy and reliability.
- Deployed the model using **GUI** to create an interactive web application, allowing users to predict car prices based on input.

#### 2.Heart disease prediction [Source code](#)

##### Roles and Responsibilities:

- Collected and preprocessed medical data for **900+ patients**.
- Identified **16 key features** (age, cholesterol levels, blood pressure).
- Developed prediction **models** using Logistic Regression, Decision Trees, Random Forest, and more.
- Split data into 70% training and 30% testing sets.
- Achieved 85% accuracy and 0.90 ROC-AUC.
- Conducted **hyperparameter tuning** and 5-fold cross-validation.
- Analyzed feature importance for **influential factors**.

### EDUCATION

#### IT Vedant

01/2023 – 12/2023 | Pune, India

#### Master in Data Science.

#### Babasaheb Ambedkar Marathwada University

06/2019 – 06/2022

#### Bachelor of Science.