

# Samruddhi Wagh

Data Scientist | AI/ML Engineer

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Have gained good exposure to understand various aspects of **Data Science** through Master's Program which has developed a great sense of confidence at every personal level. Hence, I seek a challenging position in the area of **Data Science, Machine Learning, Data Analysis & related fields** where I can share my skills and expand my capabilities further in the pursuit of progressive career advancement



## Projects

### 1. Project Title - Customized Question answering (chatbot) using large language model (LLM) on database given in pdf files-

#### Description -

- Used **PyPDF2** to extract text from uploaded PDF.
- Employed **LangChain** and **OpenAI** for **natural language processing (NLP)**
- Implemented a question-answering system with **LangChain**.
- Integrated **FAISS** for efficient document storage and retrieval.
- Utilized **Python** for backend development, incorporating **Flask** for the web interface.

### 2. Project Title - Extraction Payment Term from bank loan documents Using Named entity recognition (NER)

#### Description-

- Developed an **NER** model with **SpaCy** in **NLP, Python** for extracting payment term
- Conducted efficient **data preprocessing** on a **JSON** dataset.
- Utilized **Python** for backend development, incorporating **Flask** for the web interface
- Implemented visualization of **NER** results using **SpaCy's displacy** module.

### 3. Project Title - Agricultural Prediction System-

#### Description -

- **Identification** and **integration** of diverse data sources for agricultural insights, conducting **Exploratory Data Analysis (EDA)** for informed decision-making.
- **Data preprocessing techniques**, including **Missing Value Treatment, Outlier Treatment, Label Encoding**, and **Skewness Treatment**, to enhance data quality.
- Conducted a Comparative Study of various **Classification Models**, selecting the optimal model based on rigorous **evaluation metrics**.
- Pioneered a **Convolutional Neural Network (CNN)** based image recognition system for crop disease identification, achieving an 85% accuracy rate in disease diagnosis.



## Education

### ❖ Masters Of Computer Application (MCA) 2021-2023

Sinhgad Institute of Management, Pune university (**MCA Final Year Topper**)

CGPA - **9.14** Percentage - **86.89 %**

### ❖ Bachelor of Computer Application (Science) 2018-2021

MES Abasaheb Garware College, Pune University (**BCA Academic Rank Holder**)

CGPA- **9.80** Percentage - **89.41%**

### ❖ HSC (Science)

Feb-2018

Sinhgad college of Arts, Science & commerce

Percentage - **73.69%**

### ❖ SSC

March-2016

Sinhgad Spring Dale School

Percentage - **87.20%**



## Work Experience

CodeSpyder Technologies Pvt. Ltd., Pune.

June 2023- November 2023

### Data Science Intern,

- Had hands-on experience on **Python**
- Used python to **analyse large data sets**.
- Created **Machine Learning, Deep Learning** and **Natural Language Processing** Models using python.
- Created Web Application using python , **MySQL, HTML, Flask**
- Used knowledge of **Exploratory analysis** to **extract insights** and **uncover** important **groups, trends** and **relationships** in **data**.



## Technical Skills

- **Python** :- Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Keras
- **Machine Learning** :- Linear and Logistic Regression, K-Nearest neighbors (KNN), Support vector machines (SVM), DecisionTree, Random Forest, XgBoost, K-Means Clustering
- **Deep Learning** :- ANN, CNN, LSTM, Computer vision
- **Natural Language Processing (NLP)**
- **Object Oriented Programming Language**
- **Flask**
- **HTML5, CSS**
- **SQL**



## Achievements

- **First Rank** in Academics MCA Final year
- **First Rank** in Academics FYMCA
- **Third Rank** in Academics TYBCA
- **Third Rank** in Academics SYBCA
- **First Rank** in Academics FYBCA