

# Rahul Sanjay Chavan

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## Career Objective

- Seeking a position as a **Data Scientist**, where I can utilize my expertise in data modeling, model development and data Analysis to drive business success and improve product-driven decision making. Looking for a challenging and rewarding opportunity as a data Scientist, where I can leverage my experience in Machine learning, Generative AI, Python Programming and problem-solving skills to deliver high-quality solutions.

## Professional Preface

- Having almost 3+ years of professional experience in the field of Data Science mainly in **Machine learning** and **Generative AI**.
- I Have Hands on Experience in **Credit risk modeling** .
- Hands on Experience in ML model development using different algorithms.
- Hands on experience with Machine learning projects, Generative AI Projects and having Good Experience in **Python Programming, SQL, AWS** .
- Very Good understanding of Python data pipeline development.
- Hands on Experience in Generative AI Field to developed solution by using Prompt Engineering.
- Developed a Generative AI Solution on large language models.
- Hands on Experience with AWS Sagemaker, EC2, S3, VPC.
- Hands-on experience with python libraries like - Sklearn, Pandas, Numpy, Matplotlib.

## Projects:(Note: project details mention below)

- **Credit Underwriting Process(Banking)-ML**
- **Credit Risk Analysis(Banking)-ML**
- **SAR(Suspicious Activity Rectification)(Banking)-Gen AI-LLM**
- **Auto Documentation(Banking Use case)-Gen AI-GPT**

## Technical Profile

<b>Development Tool</b>	VS Code, Jupyter Notebook
<b>Technical Skills</b>	Machine learning, python programming, Prompt Engineering Gen AI, deep learning, SQL, Streamlit.
<b>Programming Languages</b>	Python, SQL.
<b>Cloud technology</b>	AWS Sagemaker, AWS(S3, EC2, IAM)
<b>Field</b>	Data Science, Data analytics
<b>Machine Learning Skills</b>	XG Boost Classification Algorithm, Linear Regression, Lasso & Ridge, Logistic regression, Decision Trees , Random Forest , Ada Boost, SVM etc.
<b>Industry Groups</b>	Finance

## Organizational Scan:

**Organization** : WMolex Pvt Ltd.  
**Designation** : MLOps Engineer  
**Location** : Pune  
**Duration** : July 2020 to Present

## Project Details:

### Project1. Underwriting process

❖ **Role:** Machine Learning Operation Engineer

❖ **Industry:** Finance Services

❖ **Team Size:** 8

❖ **Project Description:**

Developed a highly scalable ML algorithm based on predictive model to increase approval rate for Lending for unsecured organization with less risk. There are many credit unions and non-profit organizations that give loans to customers. So lifting the approval rate by using model score we have given solution to our clients so they can lend loans to their customer it will increase their profitability.

❖ **Responsibilities:**

- Data analysis. Data selection on the basis of requirement.(waterfall)
- Initial Feature screening as per business use.(Usable feature selected).
- Data selection on the basis of requirement.(waterfall) (Data selection for segments and modeling)
- EDA and Feature engineering.
- Model training and Model validation on recent data.
- To check lift on model and vantage for more approval rate.
- Developed adverse action methodology.

## **Project 2: SUSPICIOUS ACTIVITY RECTIFICATION(SAR)**

- ❖ **Role:** Machine Learning Operation Engineer
- ❖ **Industry:** Banking Domain
- ❖ **Team Size:** 4
- ❖ **Skills Used:** Python, Large language models, TogetherAPI, langchain, Transformers.

### **Project Description:**

The purpose of our project was to develop a solution to Suspicious activity rectification using customer documents which are stored in client or bank storage. Manually it is very difficult for the banks to find suspicious activity because there are Hundreds of documents of each customer, and it is a very critical task for the bank employees, so we have developed a solution on this by using a large language model and langchain for the clients.

### ❖ **Responsibilities:**

- Did research on latest Transformer and Large language models .
- Python pipeline development to process data, embedding and for prompting.
- Code integration according to process (very Imp task).
- Worked on Pytesseract to convert images pdf to text pdf to extract text.

## **Project 3: Credit Risk Analysis**

- ❖ **Role:** Machine Learning Operation Engineer
- ❖ **Industry:** Banking Domain
- ❖ **Team Size:** 6

### **Project Description:**

Developed a highly scalable ML algorithm based predictive model for evaluating Risky customers.

#### **Objective:**

1. Main aim of project is to help to our client to get risky customers so it will help to avoid business loss.
2. To help our client that how much risk they can take over customer on the basis of model probability score.

### ❖ **Responsibilities:**

- Data analysis. Data selection on the basis of requirement.(waterfall)
- Initial Feature screening as per business use.(Usable feature selected).

- Data selection on the basis of requirement.(waterfall) (Data selection for segments and modeling)
- Python code development.
- EDA and Feature engineering.
- Model training and Model validation on recent data.

### **Educational Scan:**

<b>Degree</b>	<b>Institute</b>	<b>Board</b>	<b>Year of passing</b>
BCA	Vasantrao Naik College	BAMU	2019
HSC(12TH)	AVS Jr College Aurangabad	STATE.	2016
SSC(10TH)	Baliram Patil High School	STATE.	2014

### **Personal Information:**

- Date of birth : 03<sup>th</sup> October 1997
- Marital status : Unmarried
- Nationality : Indian
- Address : At Deolai, Aurangabad

I hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

**Place: Pune**

**(Rahul Chavan)**

