

Rajat Pitliya

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Professional Experience

Full Time | Jr. Data Scientist | Applied Data Finance (ADF)

Sep' 21 - Present

- Performed **risk analysis** by building ML models **on Financial data** to distinguish high risk loans and low risk loans.
- Created **Behavior level ML models** to predict the **Internal Rate of Return** of a **Portfolio of loans**.
- Working in the **Model Validation team** to evaluate the performance of ML models on new data built in the past.

Internship | NLP Engineer | Osswal Infosystem, Indore

March' 21 - April' 21

- Worked on a **chatbot** to add it as a feature on the **SAP Business One** software.
- Created the chatbot on the **flask web framework** and connected it with the database using **pyodbc** module to run **sql queries**.
- Implemented various **regular expression** methods to extract useful information with specific patterns from the user input.

Projects Undertaken

Automated Creation of Google Account :

- Used **selenium** webdriver, **pyaudio** , **speech recognition** to create a gmail bot.
- Selenium interacted with **html elements** on the webpage.
- Pyaudio was used to take an **audio input** from the **microphone** for the otp (one time password) .
- Converted the **speech to text** using the speech recognition module.

Customers Segmentation Using Cluster Analysis :

- Objective was to **group the customers** on the basis of characteristics.
- Applied cluster algorithms like **k-means** and **hierarchical clustering**.
- Inspected the clusters plot** and found out the characteristics of the customers as - **standard, sensible, careless, careful and target**.

Predicting Product Sales Through Ads on the Social Networking Sites :

- Objective was to predict whether a customer will buy a product after watching the ad on social networking sites.
- Implemented various **supervised classification algorithms** such as **logistic regression, KNN, SVM, Decision Tree, Random Forest, Naive Bayes**.
- Accuracy** of all the models was **around 90 %**.

Education

IIT Bombay July' 17 - May' 21

Degree - BTech

Branch - Mechanical

Scholastic Achievements

Air **731** in JEE Advanced 2017.

Air **156** in JEE Mains 2017.

Skills

Machine Learning
Natural Language Processing
Data Preprocessing
Data Visualization
Object Oriented Programming
Regular Expressions
Web Scraping
Deep Learning

Languages and Aptitudes

Problem Solving, Python, SQL ,
HTML, Tableau, CSS, Jupyter
Notebook, MongoDB, Microsoft
SQL Server, MySQL Workbench

Third Party Libraries

Numpy , Pandas , Matplotlib
Scikit-learn , Selenium , NLTK,
pyaudio, Scrapy, Pymysql

Coding Achievements

Hackerrank 5 star (Gold Badge)
in both **Python** and **Problem Solving**.

Extra-Curriculars

- Completed **80 hours** of community service as a **NSS Vikas Volunteer** at IIT Bombay .
- Represented My District at **Division level** Ujjain as a **Chess Player** in **class 8th** .

Interests

Football, Chess, PC games.