

## Paurav Pareek

<https://github.com/PauravPareek>

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| Organization: ANZ Bank

ML – Financial Predictive Modeling, Python

RPA – Blue Prism, Work Fusion, Syntbot

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### PROFILE

A dynamic individual with 3 years' experience in Financial predictive analytics, Worked on Agile and waterfall model projects.

### KEY FUNCTIONAL AREA

- ▶ Developed applied predictive/Text classification & Fraud detection models in machine learning jargon through Regression/Classification/Ensemble models using Python for leading financial institutes
- ▶ Developed rules to be applied on existing fraud framework using tree models
- ▶ Worked in data wrangling & dataset creation phase and created standard templates
- ▶ Continuous Improvement of model performance by including new industry recognized features in existing solution for up to date solution
- ▶ Worked/Understanding of scikit learn, Pandas, Numpy, SSIS, MatPlot, SeaBorn, Deep Learning/Artificial neural network using TensorFlow/Theano framework, statistics, various algorithms(Like: Linear regression, Logistic regression, Decision tree, SVM, Random Forest etc. ) and worked with Conda (Spyder) IDE/jupyter

### TECHNICAL SKILLS

Machine Learning Domain	Predictive/ Text Classification, Financial modelling, Fraud Detection, TensorFlow
Programming Languages	Python, Oracle, SSIS, Core Java, C++, JQuery, Java scripting, Shell Scripting
RPA Domain Tools	Blue Prism, Work Fusion, SyntBots(Syntel In-house RPA tool)

### EXPERIENCE

- ▶ Associate Manager in ANZ Support Services India Pvt Ltd From October 2018 to Till Date
- ▶ Associate Consultant in Syntel Private Ltd. India, From March 2016 to October 2018

### EDUCATION

- ▶ B.Tech, Computer Science and Engineering, JECRC UDML College of Engineering, Jaipur (2015).

### PROJECTS

#### Project# 1 – Financial Crime Data Analyst & Modeler

ANZ Bank

**Role:** FinCrime Data Scientist

**Tool:** Python, SQL, QlikView

**Business Problem:** Working with FIO to build data capabilities within Financial Crime Portfolio by providing analytical insights, Driving key initiatives to improve existing FinCrime framework. Design, develop and execute solutions to achieve desired business outcomes.

#### Responsibilities:

- Developing rules by machine learning tree based algorithms to improve current detection framework
- Initiating data drive approach to prioritize AML alerts on the basis of historic alert data patterns
- Working on large amount AML alerts to replace 4-eyes by 2-eyes process, by enabling current framework with algorithm(Risk) based decision
- Working on algorithm based(Risk Based) AML TRADE(TBML) alert module
- Analyze False Positive production alerts to reduce their frequency – MTs Analysis
- Working as a business contact for various stakeholders from FinCrime data modeling portfolio

#### Project# 2 – Fraud Detection

Syntel Pvt. Ltd. India

**Client:** Leading Credit/Debit Card processor

**Role:** Data Scientist

**Tool:** Python, SSIS, Conda/IDE

**Business Problem:** Create credit card fraud detection ML model for largest credit card processor to match their state of art rule based fraud detection system, It helps organization to move from rule based approach to machine learning approach.

**Responsibilities:**

- Preprocessing and detecting anomalies in data in pre ETL phase using SSIS
- Performing EDA to find out hidden fraudulent relation in data
- Developed new features through domain feature engineering and AutoFeature
- Handling Outliers and imbalanced classes in dataset
- Using pipeline model structure

**Project# 3 - Business unit profit structure modeling**

**Syntel Pvt. Ltd. India**

**Client:** Leading North American Financial Institute

**Role:** Data Scientist

**Tool:** Python, Conda/IDE

**Business Problem:** Create a regression model to find out profit yielded by different LOBs against invested amount in different aspects (like: Infrastructure, Resourcing, R&D, Administration, Marketing etc.). It helps to recognize which aspect is directly proportional to profit.

**Responsibilities:**

- Preprocessing of Missing data, Categorical data, Data cleansing and creating preprocessing template
- Created ML regression model using Multiple Linear Regression in Python
- Improved model prediction using Backward Elimination method
- Used K-Fold & grid search to tune hyper parameters and used curve analysis for model performance

**Project# 4 - Robotics & Solutions**

**Syntel Pvt. Ltd. India**

**Client** : Leading North American Financial Institute

**Role** : RPA Developer

**Tool** : Blue Prism, SyntBots

**Processes:**

- **Centurion International Arrival Services** is to generate premium airport service for premier card flyer at arrival and departure airports.
- **Trip Cancellation Amount Back** Process reverts back cancelled PNR booking amount to bank customer, If customer cancel booked PNR.
- **Auto-Incident assignment** Integrated Service Now ticketing tool with help of SyntBots RPA tool for auto assigning of incidents to their respective application FTEs

**Other Assignments**

1. Working on report automation solution of FinCrime analytics reports