

# Vikas Pandey

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## Work Summary:

- 2+ Years of experience in Data Analytics, Data Science & Machine Learning.
- Worked across projects in various technologies implementing Machine Learning algorithms, Data Analytics, Statistical Modelling, Predictive analysis, Model Optimization, Features Selection and Tuning.
- Well versed with Python & its Machine Learning/Data analytics libraries, Hive, Pig, MongoDB, Teradata and SQL/PLSQL.
- Exploratory data analysis, Real time data processing and data mining using Splunk and Excel
- Knowledge of Data Warehousing, Data Modelling and have worked in all stages of development cycles.
- Implemented Transfer learning using TensorFlow to classify Images into different categories and have knowledge to work on deep learning using TensorFlow

## Skillset:

**Programming Languages:** Python, R, SQL/PLSQL, Hive, Pig, HTML5, JavaScript, VB6

**Tools & Libraries:** Splunk, SciKit-learn, Numpy, Pandas, TensorFlow, Matplotlib, Keras, Knime, GitHub, SVN

**Database:** MongoDB, HDFS, Oracle 11g, Teradata, SQL Server

**ETL & Reporting:** Informatica 9.x, SAP Business Objects, SSIS, SSRS

## Projects:

### 1) EMT: Product Control ExMan

**Client:** Credit Suisse, Investment Banking business, offers securities product and financial advisory services to corporations, governments and institutional investors.

**Duration:** April 2016 – Present

**Technical Skills:** Python, R, Scikit-learn, Numpy, Pandas, SQL, Oracle, MongoDB, Statistical Modelling, Model Tuning, Logistic Regression, Distributed Random Forests, Ensemble Modelling, Features selection & derivation

- Reconciliation system between Front & Back Office, generates 30k-40k exception based upon rules of ExMan engine which has to be reviewed manually to provide resolution.
- Implemented Machine Learning classification model train and validated on 6 months of historical data.
- Used Logistic Regression, Decision trees, Distributed Random Forests and Ensemble modelling techniques.
- Attained an overall accuracy of 88%, model was able to classify exceptions with a high confidence level.
- Using Machine Learning model for exception management, 80% exceptions were resolved within 2-3 minutes after being received, compared to 4-5hrs spent doing the same manually.

## 2) Data Lineage, Data Management & Governance

**Client:** Credit Suisse, Investment Banking business, offers securities product and financial advisory services to corporations, governments and institutional investors.

**Duration:** June 2015 – Mar 2016

**Technical Skills:** Splunk, PL/SQL, Oracle, MongoDB, Hive, Pig, HDFS, Python, Informatica 9.x

- Real time session log analysis to generate alerts & provide better insight on the major scenarios causing failure during data inflow from various sources to data warehouse.
- Used Splunk to generate trendline and predict future occurrences of any outages applying Machine Learning.
- Developed Hive and PIG Scripts for reporting Market Risk & VaR.
- Extracted data from the ETL mappings, and presented complex logic of various data transformations using Python script as per the business requirement.
- Data Lineage for the Calculation of various measures to maintain regulatory and compliance standards.

## 3) IDAM CSI-PCR Data Consolidation

**Client:** Allianz Life Insurance Company of North America, provides annuities and life insurance products in the United States.

**Duration:** Feb 2015 – May 2015

**Technical Skills:** SQL Server Management Studio, T-SQL, PL/SQL Developer, Informatica 9.x

- Project involved Consolidation of the Identity and Access security profiles from the VS10 data source to a single EODS repository.
- Developed various ETL mappings, keeping in view the business and functional requirements.
- Created stored procedures for the report generation & ETL mappings.

## 4) MSBI Tech. & Comm. Decommission

**Client:** AXA Belgium, An insurance firm that engages in global insurance, investment management, and other financial services.

**Duration:** Dec 2014 – Feb 2015

**Technical Skills:** T-SQL, SSMS, SQL Server Integration Services, SQL Server Reporting Services

- Project involved migration of Hyperion-Essbase BI to the Microsoft Business Intelligence platform.
- Completed the analysis of existing system, design of the new system and presented POC to the client for one sample module.
- Created the database design and schema for the new system.
- Developed SSIS package to load the data from the existing system.
- Various measures and dimensions were created in the SSAS. Reports were generated SSRS using the data ingested from the source.

## 5) SIAD Decommission to Teradata

**Client:** AXA Belgium, An insurance firm that engages in global insurance, investment management, and other financial services.

**Duration:** Aug 2014 – Nov 2014

**Technical Skills:** Teradata SQL Assistant, UNIX Putty, BTEQ

- Project involved migration of ETL programs to Teradata for the Insurance department of AXA Belgium.
- Developed Teradata scripts to migrate the existing programs, while retaining the as is ETL functionality.
- Programs to be migrated contained various algorithms involving thorough understanding of the Teradata technology, insurance and ETL concepts.
- Upon migration to Teradata we were able to provide High Scalability, Extensive parallel processing, Improved fault tolerance and Platform Independence.

### Workshops & Achievements:

- Conducted workshop on “Machine Learning: Getting Started” [Mar 2016]  
attended by over 50+ associates from TCS and Credit Suisse across Pune & Bangalore.
- Conducted live code in demo implementing Machine Learning Algorithm [Aug 2016]  
for classification of data, was attended by over 60+ associates from TCS and Credit Suisse across Pune & Bangalore.
- Awarded “Special Initiative: Beyond Performance” by TCS [Oct 2016]  
for working on Digital Reimagination.
- MongoDB Certified MongoDB Developer [May 2016]
- Splunk Certified Power User [Dec 2016]
- IBM: Machine Learning with Python [Nov 2016]
- IBM: Deep Learning with Tensorflow [Dec 2016]
- MapR Certification for Apache Hive Essentials [Mar 2016]
- MapR Certification for Apache Pig Essentials [Mar 2016]

### Education:

University Institute of Technology – RGPV, 2014	7.62/10
Bachelors of Eng. In Electronics & Communication: First Div. with Honors Bhopal, M.P.	
D.A.V. Public School, 2009	88.4
12 <sup>th</sup> (PCM): CBSE Shahdol, M.P.	