

# Rohit Raj

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**B.Tech. (IT)**  
**Data Scientist - Machine Learning**

## PROFILE SUMMARY

- B.Tech. (IT) with experience of 1 year in Software Development and Data Science
- Implemented optimized models using various Machine Learning algorithms to predict the outcome
- Acquainted with multiple technologies like Python, MongoDB, Java, Servlet, JSP, JDBC and Oracle DB
- Certified in MOOCs from University of Michigan, John Hopkins University & Massachusetts Institute of Technology
- Other links: [LinkedIn](#), [GitHub](#)

## WORK EXPERIENCE

**Nov'15 – Present**

**Wipro Technologies, Bangalore Data Scientist – Holmes Team**

### Responsibilities:

- Working on knowledge Bot that creates knowledge graph using spacy, genism and other NLP packages using Machine learning
- Trained a ML model using SVM that classifies different element inside images with more than 75% accuracy on very limited data
- Implemented AdaptiveUI Bot Agent using Python and MongoDB for Recording the test cases and process it for playback
- Implemented Tracer and git-diff features for Regression Testing Bot using Java technology that reduced time by 30% and cost by 40%

**Sep'14 – Nov'14**

**Astin Technology, Noida Intern – Software Development**

### Responsibilities:

- Assisted in writing code for Model View Controller (MVC) web application that automated the process of monitoring personnel management
- Worked on CRUD Classes for tracking employee progress along with their assigned tasks and performed CRUD operations that alter the backend database
- Streamlined the User Interface (UI) of an application that reads the contents of the database and submits form & displays in tabular form the status of the employees – related details, previous work experience, achievements, status of current assigned tasks
- Understood working of technologies like Database (MySQL), Java, Servlet, JSP, JDBC and Eclipse IDE

## PROJECTS

<b>Title</b>	Create customer segments
<b>Period</b>	Nov'16-Feb'17
<b>Description</b>	Reviewed unstructured data to understand the patterns and natural categories that the data fits into and implemented model using PCA and KMeans.

### Role:

- Made predictions about the natural categories of multiple types in a dataset, then checked Against the result of the unsupervised analysis
- Implemented feature scaling and obtained 0.44 silhouette score to get efficient number of clusters

<b>Title</b>	Student Intervention System
<b>Period</b>	Oct'16-Nov'16
<b>Description</b>	Analysed the student intervention dataset to model the factors that predict how likely a student is to pass their high school final exam and then by using that factors implemented the tuned model to predict success and failure early enough to stage effective interventions

- Role:**
- Built a Student Intervention System to suggest ways to increase school graduation Rate From 67% to 95% (Python)
  - Analysed 31 parameters to build a model to identify students who need help before they Drop out of school
  - Utilized F1 score as the performance metric to compare different techniques- SVM(F1=0.78) Decision tree (F1=0.67) and KNN (F1=0.73)
  - Improved F1 score of the best model by 2% by model tuning(Grid-search)

<b>Title</b>	Predicting Boston Housing Prices
<b>Period</b>	July'16-Sept'16
<b>Description</b>	Built an optimal model based on statistical analysis on various features of Boston housing dataset by using Machine Learning algorithm to predict selling price of homes in Boston, Massachusetts (Python).

- Role:**
- Utilized Boston Housing dataset to build the optimal model to estimate the best selling price of Boston homes
  - Exploratory data analysis to visualize the effect of different features on house price

ACADEMIC DETAILS

2015	B.Tech. (IT) from Muzaffarpur Institute of Technology, Bihar with 7.69/10
2009	12 <sup>th</sup> from PCV Mahavidyalaya, BSE Board, Chhapra, Bihar with 66%
2007	10 <sup>th</sup> from Dr. RPH School, BSE Board, Hathua, Bihar with 62%

TECHNICAL SKILLS

• Languages	Python, Java, R
• Skills	Machine Learning, Data Structure & Algorithms
• Technologies	Scikit-learn, Tensorflow, JDBC, Servlet/JSP
• IDE	Eclipse, Pycharm, NetBeans

CERTIFICATIONS

Jun'16	<b>Introduction to Python for Data Science</b> by edX
May'16	<b>Intro to Machine Learning</b> by Udacity
Dec'14	<b>Programming for Everyone - Python</b> by Coursera with 100% score

PERSONAL DETAILS

Date of Birth	15 <sup>th</sup> December, 1992
Current Address	96, 6 <sup>th</sup> Main, BTM 1 <sup>st</sup> Stage, Bangalore, India
Permanent Address	Beside of PO, Mirganj, Gopalganj District- 841438, Bihar, India
Languages Known	English, Hindi and Bhojpuri