Rohit Raj

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B.Tech. (IT)
Project Engineer - 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

WORK EXPERIENCE

Nov'15 – Present   **Wipro Technologies, Bangalore Project Engineer – 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

Title	Create customer segments
Period	Nov'16-Feb'17
Description	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

Title	Student Intervention System
Period	Oct'16-Nov'16
Description	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)

Title	Predicting Boston Housing Prices
Period	July'16-Sept'16
Description	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	12th from PCV Mahavidyalaya, BSE Board, Chhapra, Bihar with 66%
2007	10th 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, JDBC, Servlet/JSP
- IDE — Eclipse, Pycharm, NetBeans

CERTIFICATIONS

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

PERSONAL DETAILS

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