Rohit Raj

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B.Tech. (IT)
Software 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
- Other links: LinkedIn, GitHub

WORK EXPERIENCE

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

Responsibilities:
- Implemented Tracer and git-diff features for Regression Testing Bot using Java technology that reduced time by 30% and cost by 40%
- Designed AdaptiveUI Testing Bot architecture to handle customer request with zero human touch
- Implemented AdaptiveUI Bot Agent using Python and MongoDB for Recording the test cases and process it for playback

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	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	Builded 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

Title	Identity Fraud from Enron Email
Period	Apr'16-July'16
Description	Built a model using Machine learning to identify Enron Employees who may have committed fraud based on the public Enron financial and email dataset.

Role:

- Implemented a model to predict the likelihood of someone being a suspect of Enron fraud conspiracy by analysing dataset
- Optimized the model by using Decision Tree classifier with AdaBoost to get an accuracy of 86%

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, R, Java
- Databases	Oracle, MySQL, MongoDB
- Web Technologies	JDBC, Servlet, JSP, HTML, CSS, JS
- Other expertise	Machine Learning, Deep Learning using Tensorflow
- IDE	Eclipse, NetBeans, PyCharm
- Servers	Apache, Tomcat
- Operating Systems	Linux (Windows)

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