

SHUBHANSHU TRIPATHI

Birla Institute of Technology, Mesra | M.Tech. (CSE) | CGPA: 8.06 | 2018-2020

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SKILLS

- Python
- Algorithms
- Git, GitHub
- Machine Learning
- Data Structures
- Markdown

THESIS WORK

Title: Diabetes Prediction using Machine Learning (Github URL: bit.ly/dbtspred)

Languages: Python 3, Markdown

Software: Jupyter Notebook (Anaconda)

- Achieved up to **81.6% accuracy in Diabetes Prediction** on Pima Indians Diabetes Database with Random Forest classifier
- Applied and analysed accuracies of “**K-Nearest Neighbors, Support Vector Machine, Decision Tree and Random Forest**” **classification algorithms** for diabetes prediction
- Achieved up to **7.04% improvement in the accuracy of Decision Tree classification algorithm** for Diabetes Prediction
- Predicted missing values present in the dataset using a set of “**Linear Regression, Support Vector Regression, Decision Tree and Random Forest**” **regression algorithms**
- Performed **Dataset Balancing** using SMOTE algorithm and then applied **Feature Scaling**

PROJECT WORK

Title: CoWIN Vaccine Notifier (Github URL: bit.ly/covantf)

Languages: Python 3, Markdown

Software: Jupyter Notebook (Anaconda)

- Developed a Python notebook to **notify the user, as soon as any desired Covid Vaccine is available** on CoWIN website for booking
- Implemented **4 dynamic filters** on the Vaccination calendar received as a **JSON response from Co-WIN API**
- Helped **more than 30 people to get Covid Vaccines** using this notifier

CERTIFICATIONS

- Completed “**Complete Python Bootcamp**” course from Udemy (Certificate URL: bit.ly/pyud)
- Completing “**Introduction to Git and GitHub**” course by **Google** from Coursera (Course URL: bit.ly/gitcourse)
- Passed “**Basics of Data Science and Machine Learning**” course from Coding Ninjas (Certificate URL: bit.ly/dscmlcn)

ACHIEVEMENTS

- Earned **Silver badge (3/5 stars) in Python** on HackerRank
- Qualified **GATE (CS)** exam organised by Indian Institute of Science (IISc), Bangalore