

# SHUBHANSHU TRIPATHI

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

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## SKILLS

- Python
- C++
- Data Structures
- Algorithms
- Machine Learning
- Markdown

## THESIS WORK

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

**Languages:** Python 3, Markdown

**Software:** Jupyter Notebook (Anaconda)

- Achieved up to **81.6% accuracy on Pima Indians Diabetes Database** with Random Forest classifier in Diabetes Prediction
- 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 **Feature Scaling**

## PROJECT WORK

**Title:** CoWIN Vaccine Notifier (Github URL: [bit.ly/covantf](https://bit.ly/covantf))

**Languages:** Python 3, Markdown

**Software:** Jupyter Notebook (Anaconda)

- Developed a Python notebook to **notify user as soon as 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](https://bit.ly/pyud))
- Passed “**Basics of Data Science and Machine Learning**” course from Coding Ninjas (Certificate URL: [bit.ly/dscmlcn](https://bit.ly/dscmlcn))
- Passed “**Object Oriented Programming Using C++**” course from NIIT (Certificate URL: [bit.ly/cppniit](https://bit.ly/cppniit))

## ACHIEVEMENTS

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