# SUMIT KUMAR

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**GitHub:** https://github.com/smaxiso
**HackerRank:** https://www.hackerrank.com/smaxiso

## OBJECTIVE

Final year B. Tech student at NIT Patna. Inquisitive, hard-working, and consistent. Currently, doing an internship project under the guidance of my college professor. Looking for the full-time job opportunities where I can apply my skills and contribute to real-world problems' solutions.

## EDUCATION

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|---|---|
| **Graduation** | **B.Tech. (Computer Science & Engineering)**<br>**National Institute of Technology, Patna.**<br>**CGPA 7.48/10, Graduating in May 2021(Expected)** |
| **Class XII** | **Jawahar Navodaya Vidyalaya Kolasi, Katihar, Bihar (CBSE)**<br>**With 78% in 2016** |
| **Class X** | **Jawahar Navodaya Vidyalaya Kolasi, Katihar, Bihar (CBSE)**<br>**With 10 CGPA in 2014** |

## TECHNICAL SKILLS

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|---|---|
| **Language** | **C, C++** |
| **Database** | **SQL, Firebase** |
| **General** | **Data Structures, Algorithms, Computer Networks, DBMS, OS,**<br>**OOP, Unix, Shell Scripting, Machine Learning** |
| **Familiar** | **Android Studio, Java, Python** |
| **Certificates** | **Image Classification with CNNs** |

## INTERNSHIPS AND PROJECTS

**Internships**

**Fuzzy Control System for Forest Fire Detection (NIT Patna, Going on)**
Working with a team of three peoples to design a Control System using fuzzy logic and machine learning algorithm-based model written in python programming language.
The control system will be used for forest fire prediction based on the fire causing parameters such as wind, RH, temp., rain etc.
Learnt the implementations of fuzzy logic in ML and how to code fuzzy logic algorithms in Python programming language using skfuzzy library.

Skills used - Machine Learning, Python, Data Analysis, Fuzzy Logic.

**Projects**

**Image Classification using CNNs**
Lead a team of 4 peoples to design and train a ML based CNN model to classify the images into its class and we used CIFAR10 dataset in this project.
We learnt how to add multiple layers in CNN effectively and learnt about overfitting of models during training.
Our model achieved a classification accuracy of 87.44 % on training dataset and 82.5% on testing dataset.

Skills used - Python, Machine Learning, Image Processing, Classification, CNN

**Comment Spam Filtering on YouTube**
I along with the team of 3 members designed and trained a machine learning algorithm-based model for classification of comments of YouTube videos whether these comments are spam or non-spam.
We used five datasets containing comments (with spam and non-spam label) of five most popular YouTube videos.
We learnt how to perform binary classification and we achieved a classification accuracy of 96.21 %.

Skills used - Python, Machine Learning.

## EXTRACURRICULARS AND ACHIEVEMENTS

- Secured runner up position in “Web Weaver” event in NIT Patna.
- Achieved Five Stars in Problem Solving on Hacker Rank.
- Created Binary Calculator and other basic android apps.
- Selected as House Captain in JNV Katihar.
- Regional level player of Yoga and Basketball.