**Sheshant**

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# **EDUCATION**

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| **Program** | **University** | **Performance** | **Year** |
| BTech in Computer Science and Engineering | IIT Kharagpur | CGPA : 7.75/10 | 2016 |
| Secondary School | Scholars Abode Patna | 82.6% | 2012 |
| High School | St Karens High School Patna | 85% | 2010 |

# **SCHOLASTICACHIEVEMENTS**

* **Official Reviewer** for the book titled ’Android Programming with OpenCV 3’ by Joseph Howse for Packt Publishing
* Stood in the **top 1%** of the institute at the end of first year
* Secured an AIR of 2004 in IITJEE and 531 in AIEEE

# **SOFTWARE ENGINEERING SKILLS**

* **PROGRAMMING LANGUAGES AND LIBRARIES**: C, C++, Java, Python, Mat Lab, OpenCV (c++), python-nltk, python-opencv, python-networkx, OpenMP C++
* **OPERATING SYSTEM**: Comfortable with Linux, Windows 10, Kali Linux
* **SOFTWARES:** Visual Studio 2013, Eclipse, NetBeans, Solid works 2013, Microsoft office 2013, Mat lab (or Octave)
* **DATABASE:** MySQL, MS SQL, PostgreSQL

**PROFESSIONAL EXPERIENCE**

* **Intern at Samsung Research Institute, Bangalore**  (May’15 - July’15)

◦ It was based on image enhancement and deep learning

◦ upscaling of image leads to blurring of image and so we need to restore the sharpness of the image

◦ We used Convolutional Neural network for that purpose. Implemented forward propagation of CNN

◦ Used the original image for ground truth and first downscale the image and then upscale the image by the same factor and use it for the input to our CNN and then perform learning and backpropagation. Implemented in c++ caffe

• **Backend Engineer at Edelweiss Financial Services**  (June’16 - Present)

◦ **Migration of Data from MySQL and MS SQL to PostgreSQL:** Created SQL commandsfor migration which includes Tables and views and function creation script. It also includes commands for data export and import to PostgreSQL.

◦ **Technical Indicators:** Created functions for calculation of Technical indicators of stock in PostgreSQL.

**ACADEMIC PROJECTS**

• **Web Crawler in Python**  (Feb 2015)

◦ Made a web crawler using python and xpath and stored it in MySQL database

◦Crawled the dataset for IMDB web page for top 250 movies with their star cast and also applied operations using python-networkx

• **Database for Medical Diagnostic center** (2015)

◦Designed a backend database system in MySQL for a software for medical records made in java.

◦ It was supposed to store the records for all the tests and Doctors and all the patients who had appointments in the diagnostic health center.

• **Operating system** (Feb 2015 to May 2015)

◦ Made a miniature version of shell in c which is supposed to perform some linux commands like ls, ls-l, mkdir, rmdir, cd

◦ assignments on semaphores and shared locks and message passing using shared memory.

• **Image processing**

◦ Made a project on detecting false candies of irregular shape and size

◦ Used erosion and dilation process for detecting how many candies are there and which candies have small shape than usual and which have large and also are they perfect circular or not and also detect their colour.

◦ Implemented the above process using MatLab.

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| **RELEVANTCOURSES** |  |
| • Machine Learning\* | • Artificial Intelligence\* |
| • Natural Language Processing\* | • Social Computing\* |
| • Theory of Computation\* | • Database Management System L |
| • Computer Networks L | • Operating Systems L |
| • Compilers L | • Information Retrieval |
| • Algorithms II | • Software Engineering L |
| • Formal Languages and Automata Theory | • Algorithms L |
| • Discrete Structures | • Probability And Statistics |
| • Programming and Data Structures L | • Linear Algebra |
| • Matrix Algebra  L: The course had a lab component \*: Ongoing course | • Multivariable Calculus |