

NILAY SHRIVASTAVA

**OBJECTIVE** Seeking a challenging experience and opportunity to hone my skills in Data Science and Machine Learning to solve real-world problems empirically.

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**EDUCATION** **PDPM INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, JABALPUR (2014-PRESENT)**

B. Tech. in Electronics and Communication Engineering, CPI-8.4/10

**GULMOHAR PUBLIC SCHOOL, KANPUR (2014)**

Class 12 CBSE Board with **93.8%**

**ST. ARNOLD'S HR. SEC. SCHOOL, INDORE (2012)**

Class 10 CBSE Board with **10** CGPA

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**SKILLS &  
ABILITIES**

**Deep Learning**

**Data Science**

**Android Development**

**Astute Learner**

**Good Communication Skills**

**Flexible**

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**PROJECT WORK** **1. Image Captioning using Deep Neural Networks (June 2017 – present)**

Developed an image captioning model using multimodal Recurrent Neural Networks. It gives state of the art results for Flickr8k and Flickr30k datasets and currently model is being optimized to train on MSCOCO dataset.

**2. Sentiment Analysis of Assembly Elections 2017 (Jan 2017-April 2017)**

Worked on processing social media posts to analyze Assembly Elections 2017 in India. The data is collected using tweets of the election month and using training datasets of movie reviews, general tweets and positive-negative words, performed sentiment analysis of the twitter data and concluded if the election results went along with social media posts.

**3. Prediction and Analysis (Aug 2016 - Dec 2016)**

Self-governed projects using Kaggle datasets to develop a deep understanding in Machine Learning and Data Science.

#### **4. Somnamvice -A wearable sleepwalking notifier (Jan 2017 – April 2017)**

**Patent Pending**

A wearable device that helps the caretaker of the patient to get notified if he sleepwalks. Device also comes with an Android app which monitors patient's sleeping pattern and sends it to concerned doctor. The patent for the device is under process.

#### **5. Android App - IIITDMJ Newscasts (May 2016 – Nov 2016)**

Using this app, faculty can publish news/notifications to students subscribed to certain channels (like mailing list). Students can subscribe to their desired channels. It comes handy to instantly send news to a certain group of subscribers. Along with it, the app is based on institute's website. So it contains relevant information and links available in website.

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TECHNICAL SKILLS	Languages - <b>C, Java, Python, C++, HTML, XML</b> Frameworks and Libraries - <b>Keras, Tensorflow, sklearn, nltk</b> Micro-processor 8085 programming, Unity Game Development MATLAB, MS-Excel, <b>Arduino</b> , SolidWorks
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RELEVANT COURSEWORK	<b>MIT 18.06 Linear Algebra by Gilbert Strang</b> (MIT OpenCourseWare) <b>MIT 6.041 Probabilistic Systems Analysis and Applied Probability</b> (MIT OpenCourseWare) <b>Introduction to Data Science and Data Analysis</b> (Udacity) <b>Introduction to Descriptive and Inferential Statistics</b> (Udacity) <b>Machine Learning by Andrew Ng</b> (Stanford University, Coursera) <b>Natural Language Processing by Dan Jurafsky and Chris Manning</b> (Stanford University) <b>Data Structures and Algorithms Grade A</b> (ES 103) <b>Linear Algebra and Complex Analysis Grade A</b> (NS 103) <b>Introduction to Game Theory Grade A</b>
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POSITION OF RESPONSIBILITY	Core Team Member Web Design of GUSTO 2017 (Sports Fest of IIITDMJ) Student Senate Member of IIITDMJ (2015-2016) Student Guide (Counselling Services IIITDMJ 2015-2016)
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ACHIEVEMENTS	Awarded with Certificate of Merit for outstanding performance in Academics (2014-2015)
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Awarded with Certificate of Excellence in National Standard Examination in Physics by Indian Association of Physics Teachers (2013-2014)

Awarded a Silver Medal in National Science Olympiad (City Level)

Secured 17<sup>th</sup> State Rank in International Olympiad of Mathematics

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INTERESTS   Science, Technology, English Literature, Table Tennis, Philosophy

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PERSONAL   Name                               : Nilay Shrivastava  
PROFILE   Date of Birth                        : 17/01/1996  
                 Address                        : 13, Ansal Basera Colony, Jhansi, U.P. , India  
                 Sex                                : Male

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