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# Himanshu Verma

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## Education

2013-2018 (Expected) | B.Tech and M.Tech (Dual Degree) in Computer Science and Engineering
**Indian Institute of Technology**, Kharagpur
**Relevant Courses:** Deep Learning, Machine Learning, Artificial Intelligence, Operating Systems, Database Management Systems, Computer Networks, Information Retrieval, Speech & Natural Language Processing, Compilers, Software Engineering, Algorithms-I & II, Discrete Structures

## Internship/Full Time Offers

Aug 2017 | **Pre-Placement Offer from Adobe Systems, Bangalore (Member of Technical Staff)**

July 2017 – May 2017 | **Bidding on Low Impression Keywords in Paid Search Advertising**
Product Intern at Adobe Systems, Bangalore
- Adobe has an algorithmic bidding system which helps clients to find the right bid, predict the cost incurred and returns fetched.
- All keywords do not have enough historical data to come up with predictions which limits the bidding system's coverage and poses a risk of not getting clicks when placing bids on these keywords.
- Minimised this risk and increased the coverage by building a model which finds the probability of getting clicks on sparse keywords.

Jun 2016 – May 2016 | **Building Knowledge Base using Unstructured Data**
Software Development Intern at Flipkart, Bangalore
- Proposed a domain specific chunking grammar, which was used along with various open information extractor tools like ReVerb, Ollie, Stanford CoreNLP to extract the phrases from each sentence.
- Used word2Vec model to produce word embedding and then used Hierarchical Agglomerative Clustering (HAC) method to cluster them.

## Academic Projects

Mar 2017 – Sep 2016 | **Detection of Diabetic Retinopathy in Eye Images**
- Pre-processed the data-set which includes fundus and OCT images by removing redundant information and created a Convolutional Neural Network (CNN) that learns and classifies images in different category based on severity of disease.

Nov 2016 – Aug 2016 | **Song Lyrics Generation using Neural Networks**
- Built a database of song lyrics and used tensorflow to create a Long Short Term Memory (LSTM) neural network that works on a word-level language model which learns the artists' styles of writing, including words, rhymes, chorus, etc.

Apr 2016 – Mar 2016 | **Link Prediction using Apache Spark**
- Given a social graph, predict which links are expected to appear in the future. Used Logistic Regression (mllib library - Apache Spark) and Jaccard's similarity to calculate the probability of two unconnected nodes getting connected in the future.

Mar 2016 – Feb 2016 | **Academia - Course Management System**
- Built a complete course management system that supported authentication & authorization, User Access Control for 4 different types of users, calendar support and all major features one can expect from a CMS.

Nov 2015 – Aug 2015 | **Compiler for Tiny C (A Subset of C Language)**
- Developed a TINY C compiler using compilers principles, techniques and tools. The tools used for development were Flex and Bison. The compiler was written entirely in C++ language.

Apr 2015 – Mar 2015 | **Restaurant Automation System**
- Developed a software built using JAVA Swing for a Restaurant Automation System which handles and automates the requests of the management and customers. Documented the software (SRS,SA/SD,UML,Test-Suite),which involved using UML case tools.

## Technical Skills

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|---|---|
| Programming | *Proficient in* C, C++, *competent in* Python, Java and *Familiar with* Scala, Javascript |
| Libraries/Frameworks | TensorFlow, scikit-learn, pandas, Node.js, AngularJS, Express |
| Databases | MySQL, MongoDB |
| Markup/Templating | HTML, CSS, LaTeX |
| Software & Tools | StarUML, Netbeans ID, Eclipse |
| Systems/Platforms | Git, Microsoft Windows, Linux(Ubuntu) |

## Scholastic Achievements

- Stood amongst top 2.6% participants (rank 150) in the **Google APAC 2017 University Test** - Round B. Handle - *lannister*.
- Team **Curious_moles** qualified for the onsite round and stood amongst top 20% participants in the **ACM-ICPC'16** held at Coimbatore.