

## EDUCATION

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### St. John's High School

CBSE Class X 2014

Cumulative Grade Point Average: 10/10

### Sri Guru Gobind Singh Sr. Secondary School

CBSE Class XII 2016

Aggregate Percentage: 91.8%

### Indian Institute of Technology, Kanpur

B. Tech. Computer Science & Engineering

Cumulative Performance Index: 9.3/10

## INTERSHIPS

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### The Indian Economist

Analyst · Jan 2017

Content Strategy Program

## PROJECTS

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### Competitive Machine Learning, Digit Recognition and Text Summarization

Jan 2017 to Apr 2017

Supervised by the Association of Computing Activities

- Studied and implemented common Machine Learning Algorithms and Techniques. Solved the following problems on Kaggle: Titanic: Machine Learning from Disaster and Bag of Words using Scikit-Learn.
- Performed Recognition of Handwritten Digits on MNIST dataset using feed-forward neural networks, achieving 96% accuracy
- Implemented RSS newsfeed summarizer using NLTK, Gensim (Word2Vec), Tf-Idf Algorithm and Networkx Package (Page Rank)

### Technical Dialog Chatbot

May 2017 to Aug 2017

Supervised by Programming Club

- Implemented a retrieval-based, short conversation, closed domain chatbot using a Dual Encoder LSTM network and trained on the Ubuntu Dialog Corpus (UDC)
- Employed LSTM and word embeddings of prior context and responses to generate a prediction, applied the sigmoid function to obtain the required probability distribution of sampled responses. Trained using binary cross-entropy loss.
- Achieved 69% average recall score using recall@2 metric and 91% using recall@5.

## ACHIEVEMENTS

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### National Council of Educational Research and Training · Awarded National Talent Search Scholarship

2012

Qualified State Talent Search Exam, Chandigarh and National Talent Search Exam (NTSE)

### Indian Association of Physics Teachers · Qualified National Standard Examination in Junior Science (NSEJS)

2013

Ranked among the top 1% of candidates

Qualified for Indian National Junior Science Olympiad (INJSO)

### Indian Institute of Science · Qualified for KVPY Fellowship

2014

Qualified National Aptitude Test and Interview Round, secured AIR 484

### JEE Advanced

2016

Secured AIR 179 among 2 lac candidates

# TECHNICAL SKILLS

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**PROGRAMMING:** C/C++, Python, Octave

**UTILITIES:** Numpy, TensorFlow, Pandas, Git, LaTeX, MS Office

**OPERATING SYSTEMS:** Windows, Linux (Ubuntu)

## RELEVANT COURSES

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Multivariate Calculus

Linear Algebra

Ordinary Differential Equations

Introduction to Programming

Introduction to Economics

Discrete Mathematics

\*ongoing

Abstract Algebra

Logic in Computer Science

\*ongoing

Game Theory I

by Stanford University and University of British Columbia via Coursera

Machine Learning

by Stanford University via Coursera

Deep Learning

by Google via Udacity

## POSITIONS OF RESPONSIBILITY

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Counselling Service · Student Guide

Jul 2017 to Present

Public Relations Techkriti'18 Senior Executive

Aug 2017 to Present

## CO-CURRICULARS

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Vox Populi · Core Group Member

Sep 2016 to Present

Contributed as a writer to the campus journalism body

Languages

- Native: Hindi, Punjabi
- Full professional proficiency: English
- Limited working proficiency: French, German

Oratory

Participated in Declamations, Parliamentary Debates and MUNs.

Quizzing

Bournvita Quiz nationals first runners-up