

Suryateja B.V.

Senior Undergraduate, IIT Kanpur

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EDUCATION

BTech, Electrical Engineering
IIT Kanpur, 2020 (expected)
CPI : 9.53 / 10 (after 6 semesters)

Telangana Board - Class XII
Sri Chaitanya Junior College, Hyderabad, 2016
Percentage : 98.6%

CBSE - Class X
Vidyaniketan Public School, Bengaluru, 2014
CPI : 10 / 10

WORK EXPERIENCE

May 2019 - July 2019 **Research Intern, Adobe Research, Bengaluru**
Supervised by Balaji Vasan and Gaurav Verma

- Designed a holistic system that generates coordinated multimodal fragments from an input article to satisfy target user needs
- Used a plethora of recent deep learning models to aid in causal modeling of perceptual attributes and retrieval of relevant fragments

May 2018 - July 2018 **Research Intern, University of Texas at Dallas (remote)**
Supervised by Prof. Vibhav Gogate

- Learned chow-liu features as prior network on NLCS dataset by computing mutual information weighted graph and constructing a maximal spanning tree
- Used a novel regularization scheme called Quantization with annealing schedule to bias structure towards sparsity

PROJECTS

Aug 2019 - Present **Dynamic Recommender Systems, Undergraduate Project**
Supervised by Prof. Piyush Rai

Mar 2019 - April 2019 **Pulse Oximetry, Course Project**
[Presentation](#)
Use the principle of photoplethysmography to build a heart rate monitor using Arduino Nano

Jan 2019 - April 2019 **Advances in Recommender Systems, Course Project**
[Presentation](#)
Model user-exposure and incorporate item-item co-occurrence matrix to learn robust embeddings

Aug 2018 - Nov 2018 **Explainable Machine Learning, Course Project**
[Presentation](#)
Create neuron groups using non-negative matrix factorization to visualize InceptionV2 features

May 2018 - June 2018 **Stock Market Prediction, Credit Suisse ML Hackathon**
[Presentation](#)
Part of a three-member team that secured **third place** in National Finals among top 15 teams

Nov 2017 - Dec 2017 **Exoplanet Detection, Inter IIT Tech Meet, IIT Madras**
[Code and Report](#)
Detecting exoplanet containing stars in highly imbalanced Kepler Light Curve data using signal processing

Mar 2017 - May 2017 **SongTrain, code.fun.do Hackathon, Microsoft**
[Demo Video](#)
Part of a three-member team that secured **first place** in National Finals among 37 teams from top 15 IITs

May 2017 - Jul 2017 **Technical Dialog Chatbot, Programming Club, IIT Kanpur**
[Demo Video](#)
A retrieval-based, short conversation, closed domain chatbot using Dual Encoder LSTM network

ACADEMICS

2016-2018 **Academic Excellence Award**
Among 850 students

June 2016 AIR 2369, JEE Advanced 2016
Among 1.5 lakh students

May 2016 AIR 166, JEE Mains 2016
Among 15 lakh students

SKILLS

Languages C, C++, Python, JavaScript

Development HTML, CSS, Django

ML Libraries Keras, Numpy, Pandas

Miscellaneous Shell Utilities, R, Git

VOLUNTEERING

May 2018 **Member, Core Team Guidance**
- May 2019 *Counselling Service*

July 2017 **Secretary**
- May 2018 *Programming Club*

April 2017 **Academic Mentor (Maths)**
- May 2018 *Counselling Service*

RELEVANT COURSEWORK

Computer Science

Data Structures and Algorithms
Algorithms II
Probabilistic Modeling and Inference
Introduction to Machine Learning
Computer Organisation
Operating Systems (*)

Electrical Engineering

Signals, Systems, and Networks
Communication Systems
Digital Electronics

Mathematics and Others

Probability and Statistics
Linear Algebra and Multivariable Calculus
Ordinary and Partial Differential Equations
New Media Theory
Behavioral and Experimental Economics

* - Ongoing Courses