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 NLTCS 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 , <i>Undergraduate Project</i> Supervised by Prof. Piyush Rai
Mar 2019 - April 2019 Presentation	Pulse Oximetry, <i>Course Project</i> Use the principle of photoplethysmography to build a heart rate monitor using Arduino Nano
Jan 2019 - April 2019 Presentation	Advances in Recommender Systems, Course Project 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 Presentation

Stock Market Prediction, *Credit Suisse ML Hackathon* Part of a three-member team that secured third place in National Finals among top 15 teams

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

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

May 2017 - Jul 2017 Demo Video

Technical Dialog Chatbot, *Programming Club, IIT Kanpur* 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

VOLUNTEFRING

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May 2018	Member, Core Team Guidance	
- May 2019	Counselling Service	
July 2017	Secretary	
- May 2018	Programming Club	
April 2017 - May 2018	Academic Mentor (Maths) 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

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