Suryateja B.V.
Senior Undergraduate, IIT Kanpur

home.iitk.ac.in/~suryab/
teja.surya59@gmail.com
(+91)-7318015935

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 assistive application 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**, *Undergraduate Project*
Supervised by Prof. Piyush Rai

Mar 2019 - April 2019 — Presentation — **Pulse Oximetry,** *Course Project*
Apply 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 — Presentation — **Explainable Machine Learning**, *Course Project*
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

VOLUNTEERING

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

RELEVANT COURSEWORK

Computer Science
Data Structures and Algorithms I & II
Probabilistic Modeling and Inference
Introduction to Machine Learning
Computer Organisation
Electrical Engineering
Communication Systems
Control Systems
Digital Electronics
Mathematics and Humanities
Probability and Statistics
Linear Algebra and Multivariable Calculus
Ordinary and Partial Differential Equations
Time Series Analysis (*)
New Media Theory
Behavioral and Experimental Economics
Urban Habitat Studies (*)

* - Ongoing Courses