Vasant Kumar Yadav

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Education

Year	Institute	Board / Branch	Result
2015 - Present	Indian Institute of Technology, Kanpur	B.Tech, Civil Engineering	8.02/10
2015	SBN SEC SCH, CCS NAGAR, SIKAR	RBSE(XII)	88.60%
2013	SBN SEC SCH, SHAHPURA, JAIPUR	RBSE(X)	92.33%

Scholastic Achievements

- 2017 **Codechef,** Rated as 4 star, Global Rank 1 in Division 2 October Long Challenge 2018
- 2018 **Facebook Hacker Cup,** Ranked **1385** in Qualification round among 6500 participants
- 2019 **Computer Science,** Minor in Machine Learning And Applications with CPI 8.0/10
- 2018 Regular participant in online programming contests on **codeforces** with rating of 1563
- 2015 **JEE Advanced,** Achieved an All India Rank of **6952** among **1.5 lakh** candidates
- 2015 **JEE-Mains,** Achieved an All India Rank of 11417 among 13.5 lakh candidates

Academic Projects

Machine Comprehension using SQUAD   *IIT Kanpur*
INTRO TO NATURAL LANGUAGE PROCESSING   *Jan. 2018 - Apr. 2018*
- Developed an end-to-end model which can process given text document and answer the questions based on given content using **Machine learning (match LSTM)** algorithm and **Answer Pointer** approach to point out the answer
- Trained and tested the developed model on **Stanford SQUAD** Dataset that consists **87000** question-answer pairs
- Built a Co-attention encoding mechanism using **neural networks (Bi-LSTM)** to capture data relevant to Question only
- Achieved **58.2% Exact Match** accuracy and **70.3% F1** score on Stanford Question Answering Dataset as test data

Sentiment Analysis on IMDB Data   *IIT kanpur*
PROF. HARISH KARNICK   *Jan. 2018 - Apr. 2018*
- Goal of project was to determine the binary sentiment of the given text document as Negative or Positive
- Created **Binary Bag of Word, Term Frequency, Paragraph Vector and Word2vec** representations on IMDB dataset
- Used Classification algos- Feed forward Neural Network, **Naïve bayes, Logistic regression, SVM** on all 4 representations
- Achieved **88.34% accuracy** on Average Word to vector representation using multilayer **feed forward neural networks**

Dependency Parser   *IIT Kanpur*
COURSE PROJECT | INTERPRETS RELATION BETWEEN WORDS IN SENTENCE   *Aug. 2017 - Nov. 2017*
- Built NLP model to resolve **Syntactic, Symantic or Anaphoric** ambiguity in given sentence by feed forward neural Net
- Trained the developed model on English Word TreeBank(EWT) that consist 16,622 parsed sentences
- Achieved an accuracy of 90.8% to generate the parse tree of English sentence by successfully resolving ambiguities

Finite Element Method   *IIT Kanpur*
PROF. SUPARNO MUKHOPADHYAY   *May. 2017 - July. 2017*
- Developed a generalized MATLAB programme to get Force in any component of truss using Finite Element Method
- Programmed in MATLAB to get Force and deflection of any bar in trusses with supports inclined at any angle
- Designed a MATLAB programme to get Influence Line Diagram of any bar in truss
- Optimized general truss using genetic algorithm in MATLAB to get the most efficient and economical design possible

Position of Responsibility

Senior Executive Media and Publicity   *IIT Kanpur*
TECHKRITI 2017   *Aug.2016 - Mar. 2017*
- As part of team, performed various tasks for publicizing the fest including public events, exhibitions and press release
- Created a network by calling Media companies for sponsorship and compiled MOU's for them to publicize events
- Successfully finalized the deal with 7 media sponsors for publicizing the fest which led to increase in overall participation
- Led four junior executives during the fest to ensure proper publicity of sponsors and smooth conduction of events

Relevant Courses

- Natural Language Processing
- Data structures and Algorithms
- Probability and Statistics
- Machine learning
- Intro to computing
- Linear Algebra

Technical Skills and Interests

- **Languages** : C++, C ,Python
- **Software** : Octave, MATLAB, SOLIDWORKS
- **Interests** : Competitive Programming , Artificial Intelligence and Machine Learning and Algorithms.

Extracurricular Activity

Takneek Represented hall in DesCon, an event in intra-hall technical competition and built a lightweight bridge out of Sticks
Antaragni Part of the Finance Team as Junior executive worked towards the sell of official merchandise of Antaragni'15
NCC Certified bona fide cadet of 2 U.P. Compo(Tech.) Reg(NCC) and involved in community work like Swach Bharat Abhiyan