

Vasant Kumar Yadav

Third Year Undergraduate
Department of Civil Engineering

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Educational Qualifications

Year	Degree/Certificate	Institute	Performance
2015-present	B. Tech, Civil Engineering	Indian Institute of Technology, Kanpur	8.1/10
2015	Grade 12 th (RBSE)	SBN SEC SCH, CCS NAGAR, SIKAR	88.60%
2013	Grade 10 th (RBSE)	SBN SEC SCH, SHAHPURA, JAIPUR	92.33%

Scholastic Achievements

- Achieved an **All India Rank** of **6952** among **1.5 lakh candidates** in the **JEE Advanced** 2015
- Achieved an **All India Rank** of **11417** among **13.5 lakh candidates** in the **JEE-Mains** 2015

Machine Learning Projects

Sentiment Analysis on IMDB Data

- Created Binary Bag of Word, Term Frequency, Paragraph Vector and Word2vec representations on IMDB dataset
- Used Classification algorithms such as Feed forward Neural Network, Naïve bayes, Logistic regression, Support Vector Machine on all four representations
- Achieved 88.34% accuracy on Avg Word to vector representation using multilayer feed forward neural networks

Academic Projects

Finite Element Method using MATLAB (prof.- Suparno Mukhopadhyay)

May'17-Jul'17

- Developed a generalized MATLAB programme to solve truss of any length using Finite Element Method
- Programmed in MATLAB to solve generalized trusses with supports inclined at any angle
- Designed a MATLAB programme to get Influence Line Diagram of any bar in truss
- Optimization of a truss structure using genetic algorithm in MATLAB

Mechanical Hand (prof.- Neeraj Sinha)

Jul'16-Nov'16

- Manufactured a Mechanical Hand for demonstration of cam mechanism in 5 members
- Designed and fabricated using Drilling, Milling and Lathe machine for processes like turning and making gears

Automated Punch Machine (prof.- Shashank Shekhar)

Jan'17 - Apr'17

- Proposed the idea of the prototype and modelled its design and working using **SolidWorks**
- Coordinated with 5 member team and made the manufactured product to TA's and Instructor

Positions of Responsibility

Senior Executive Media and Publicity, Techkriti'17

Aug'16 - Mar'17

- Being in Media and Publicity team, hence performed various tasks for publicizing the fest
- Called Media companies for sponsorship and compiled MOU's for them to publicize events held in Techkriti'17
- Finalized the deal with 7 media sponsors for publicizing the fest, Techkriti'17
- Led four junior executives during the fest for securing proper publicity of sponsors

Technical Skills

Programming Languages – C, Python, MATLAB

Software –MATLAB, SolidWorks ,AutoCad, Adobe Premiere Pro

Others –Git & Github, HTML5/CSS3, MS Word, MS Excel

Relevant Courses

*Indicates in progress

Fundamental of computing

Data Structures and Algorithms

Intro to Natural Language Processing*

Applied Probability and Statistics

Extra-Curricular Activities

- Represented hall in DesCon, an event in intra-hall technical competition in Takneek'15
- Part of the Finance Team as Junior Executive in Antaragni 2015
- Certified as a bonafide cadet of 2 U.P. Compo(Tech.) Regt(NCC)

Interests and Hobbies

- Understanding Data structures and Algorithms
- Reading on quora and reading books
- Playing outdoor games, specially Cricket and Badminton