

Rajnish Singh

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INTERESTS

ARTIFICIAL INTELLIGENCE | IMAGE
PROCESSING | NATURAL LANGUAGE
PROCESSING

ACHIEVEMENTS

'13 AIR 3265 IIT-JEE 2013
'16 A grade Theory of Machines
'16 3rd/50 Matador Drawing
'18 A Grade Theory of Knots

LINKS

Github:// [rajnish](#)
LinkedIn:// [rajnish](#)
HackerRank:// [rajnish](#)

EXTRA CURRICULAR

COORDINATOR, FINE ARTS CELL
Participated in paper costume event,
Managed event scheduling & timings.

FINE ARTS CELL
Secretary for 1.5 yrs. Conducted &
participated in various minor arts
events eg. Paper Costumes Design,
Speed Art, etc.

SKILLS

LANGUAGE

R • PYTHON • MATLAB • C • OCTAVE
SQL ORACLE

COURSERA

- SEQUENCE MODELS
- CONVOLUTIONAL N-NETWORKS
- NEURAL NETWORKS
- DEEP LEARNING
- MACHINE LEARNING

SOFTWARE

R STUDIO • AZURE NOTEBOOKS •
SOLIDWORKS • INVENTOR • ANSYS

EDUCATION

IIT KANPUR

BACHELOR OF TECHNOLOGY, MECHANICAL ENGINEERING

Graduated in May 2018

Relevant Courses

- Fundamentals of Computing • Theory of Knots • Linear Algebra & Complex Numbers • Theory of Mechanisms • Introduction to Biology • Engineering Graphics

D.A.V. PUBLIC SCHOOL | CBSE

- Scored 89.2% in class XII in 2013 • Scored 9.8 CGPA in class X in 2011

PROJECTS

BAJA SAE IITK MOTORSPORTS DR. AVINASH AGRAWAL

Apr 2015 – Sep 2016

Designed and manufactured an all-terrain Buggy vehicle in team of 33. Achieved TechReady Award in BAJA Student India '16, for sound engineering and manufacturing practices. Using ANSYS and SOLIDWORKS, reduced vehicle weight by 14.17% and increased torsional strength by 12.2%.

MATADOR DRAWING DR. V. K. JAIN | MANUFACTURING-II

Jan 2015 – Apr 2015

Achieved 3rd Best Project Award. Devised a gear-train based assembly which made patterns to be used in making simple & symmetric wooden murals in 4 different sizes. CAD made in SOLIDWORKS.

COMPETITIONS

MCKINSEY ANALYTICS COMPETITION Analytics Vidhya

Participated individually and secured a place among top 14% out of more than 5000 teams on private leaderboard. Performed Data Preprocessing and Data Oversampling & Undersampling to level unbalanced classes, removed highly correlated data and imputed outlier/missing values.

DIGIT ANALYZER Kaggle

Successfully applied Neural Network and SVM and achieved accuracy of 97.58%. Handled missing/outlier data by attributing mean values. Applied PCA with rotation to reduce no. of features and compile time.

OTHERS

INNOVATION IN MANUFACTURING PRACTICES ANTARAGNI

Coordinator('15) & Manager('16)

Increased no. of participants in the event by 18%. Event attended by Director, BHEL and other dignitaries, and professors. Managed team of 10 secretaries and volunteers for smooth event processing. Coordinated with Hospitality Cell to ensure the comfortable stay for judges.

STERLING ENGINE DESIGN EVENT | TAKNEEK

Sep 2016

Won 2nd prize for designing a sterling engine from scraps using candle flame as source.