

Rajnish Singh

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EDUCATION

I.I.T. KANPUR

B.TECH IN MECH. ENGINEERING
Graduated Jun 2018 | Kanpur, UP
Cum. CPI: 6.5

DAV PUBLIC SCHOOL

Grad. May 2013 | Kota, Raj.
Percentage: 89.2/100

DAV PUBLIC SCHOOL

Grad. May 2011 | Chhal, C.G.
CGPA: 9.8/10.0

LINKS

Github:// [rajnish13547](#)

LinkedIn:// [rajnish13547](#)

COURSEWORK

SELF-STUDY

Deep Learning Basics
Regression Models
Ensembling + Stacking
Machine Learning

UNDERGRADUATE

Probability and Statistics
Heat and Mass Transfer
Thermodynamics
Theory of Machines
Energy Systems
Theory of Knots

SKILLS

PROGRAMMING

Over 2000 lines:
R • Python • Octave/MATLAB • C
Familiar:
Tensorflow • PowerBI • KNIME
• Autodesk • ANSYS

PROJECTS & COMPETITIONS

PRAYAAS, IIT KANPUR

Feb 2015 - Mar 2015

- Taught Maths & Physics to 10th and 11th class of strength thirty for one month.
- Coursework included Projectile Motion, St. Lines & Circles, complex Numbers.

MCKINSEY ANALYTICS COMPETITION

20-23 Jul 2018-Analyticsvidhya

- Participated individually and secured a place among top 14% worldwide in more than 5050 teams on private leaderboard.
- Performed Data Preprocessing and Data Oversampling & Undersampling to level unbalanced classes, remove highly correlated data and imputed outlier/missing values.

BAJA SAE IITK MOTORSPORTS | CHASSIS SUBSYSTEM TEAM MEMBER

Guide: Prof. Avinash K. Agrawal | Apr 2015 – Aug 2016

- Achieved TechReady Award in BAJA Student India '16, for sound engineering & manufacturing practices.
- Using ANSYS and SOLIDWORKS, reduced vehicle weight by 14.17% and increased torsional strength by 12.2%.
- Built 3D-CAD design and performed various analyses in ANSYS, while coordinating with 33-member team.

DIGIT ANALYZER | KAGGLE COMPETITIONS

SVM & Neural Network on famous MNIST pixel data

- 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.

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.

MATADOR DRAWING | MANUFACTURING COURSE-II PROJECT

Instructor: Dr. V. K. Jain, Department of Mechanical Engineering, IIT Kanpur

- Achieved Third Best Project Award among more than 25 projects.
- 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.

OTHERS

- Fine Arts Cell: Secretary for 1.5 years. Conducted and participated in various minor arts events like Paper Costumes Design, Speed Art,etc.
- Josh: Participated in Badminton & Volleyball in intra-hall sports competition.