

Rajnish Singh

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INTERESTS

BUSINESS ANALYTICS | ARTIFICIAL
INTELLIGENCE | IMAGE 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 CLUB

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 • ORACLE

COURSERA

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

SOFTWARE

R STUDIO • AZURE NOTEBOOKS •
SOLIDWORKS • 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

KAGGLE COMPETITIONS

HOME CREDIT - DEFAULT RISK Kaggle

Performed EDA, Data Preprocessing and Feature Engineering to remove undesired, highly correlated data and missing values. Evaluated probabilities of repaying loan for target people. Implemented stacking via LightGBM to get AUCROC of 0.76932.

MCKINSEY ANALYTICS COMPETITION Analytics Vidhya

Participated individually and secured top 10% out of more than 5000 teams on private leaderboard. Performed Data Preprocessing and Data Oversampling & Undersampling. Increased potential revenue by reducing agent charges & increasing subscriptions.

DIGIT ANALYZER Kaggle

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

PROJECTS

BAJA SAE IITK MOTORSPORTS IIT Kanpur

Designed and manufactured an all-terrain Buggy vehicle in team of 33. Achieved TechReady Award in BAJA Student India '16. 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

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

OTHERS

INNOVATION IN MANUFACTURING PRACTICES ANTARAGNI

Increased no. of participants in the event by 18%. Managed team of 10 secretaries. Coordinated with Hospitality Cell to ensure the comfortable stay for judges.

STERLING ENGINE DESIGN EVENT | TAKNEEK

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