Suneel Dondapati

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"In God We Trust, All Others Bring Data" - Edwards Deming

Objective

To pursue job in an organization where I can maximize my goals. I am interested in Multivariate Statistics, Design of Experiments, Machine Learning and Stochastic Optimization. Mostly in data driven decision making.

Education

R.V.R & J.C College of Engineering — **Guntur, India**
Bachelor of Technology in Mechanical Engineering , CGPA–9.24 — *2012–2016*

Sri Chaitanya Junior College — **Vijayawada, India**
Intermediate , 96.3% — *2010–2012*

Little Angles High School — **Jaggayyapet, India**
10^{th} *standard , 88.5%* — *2010*

Industrial Exposure

Rastria Ispath Nigam Limited — **Visakapatnam, India**
Engineering Shops and Foundary — *Sep 29,2014–Oct 11,2014*

Academic Projects

Application of Orthogonal Array Design for Optimizing the Surface Roughness — **Prof. G.Srinivasa Rao**
Term Paper — *November 2015*

As of the $L_{18}(2^1 \times 3^7)$ orthogonal array design experiments were carried out in turning AISI 52100 steel. Five factors each set at three levels were considered and surface roughness models were developed.

Multi-Response Optimization using GRA, TOPSIS and PCA–TOPSIS — **Prof. G.Srinivasa Rao**
B.Tech Project — *April 2016*

In this work the cutting parameters namely process parameters such as cutting speed, feed, depth of cut and tool parameters such as nose radius, rake angle are considered as input factors to study their effects on responses surface roughness and material removal rate. In this study, the experiments were carried out as per L_{18} orthogonal array design. This study highlights the use of Grey relational analysis (GRA), Technique for order preference by similarity to ideal solution (TOPSIS) and principal component analysis based TOPSIS (PCA-TOPSIS). Analysis of variance (ANOVA) was also used to find out the most influenced cutting parameters on the responses. From the results, It can be observed that PCA–TOPSIS is the best optimization technique compared to to the remaining techniques.

Publications

[1] SrinivasaRao Gunji, SanthiPriya P, and Suneel Dondapati. Modelling of surface roughness for aisi 52100 steel in wedm by design of experiments. *International Journal of Engineering Research & Technology*, 05(05):234–239, May 2016.

[2] SrinivasaRao Gunji, Suneel Dondapati, Manikanta KGSV, and Praveen D. Mathematical modelling of surface roughness in hard turning for evaluating the effects of process and tool parameters. *Discovery*, 52(246):1366–1373, June 2016.

[3] Suneel Dondapati and SrinivasaRao Gunji. Optimization of multiresponses using grey relational analysis and topsis. In *6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) Conference*, 2016.

Achievements

Scholastic

- **Machine Learning** by Stanford University on Coursera.
- NPTEL Online Elite Certification for successful completion of the course "**Applied Multivariate Statistical Modelling**" from IIT Kharagpur and I was one of the toppers.
- NPTEL Online Certification for successful completion of the course "**Design and Optimization of Energy Systems**" from IIT Madras.
- **EAMCET Merit scholarship:** Got full tuition fee paid by Andhra Pradesh state government for all the four years of B.Tech.
- **Runner-up** in "Death Race 2.0" at NIT ROURKELA (ISM-2K15).
- **Selected for** 2^{nd} **level** and one of the top 15 teams in "ENGINX" competition conducted by TCS.
- Presented paper on "REGISTRY EDITOR" at K L University (SAMYAK-2K15).
- Participated in the event "ROBO RODENTIA" at Vignan University (MAHOTSAV-2015).
- Presented paper on "CRYOGENICS" organized by Industry-Institute Partnership cell on the occasion of 47^{th} Engineer's day.
- Presented paper on "3D-PRINTING" at K L University (SAMYAK-2K14)

Non-Scholastic

- Received NCC "A" certificate, 17(A) BN NCC, Vijayawada.

Key Skills

- **Programming Languages:** C/C++, Python, R, Matlab
- **Typesetting Tools:** LaTeX, Markdown
- **Software Packages:** SPSS, MINITAB, Design Expert

Position of Responsibility

- Robotic **event organizer** in the National level Technical fest MECHMANTRA 2K15.
- **Coordinator** for the National level Technical fest MECHMANTRA 2K16.
- **Started robotic club** named R'BOT in our college and acted as president for one year.

References

- **Ravindra Kommineni**, Professor & Head, Department of Mechanical Engineering, R.V.R & J.C College of Engineering, $(+91)863-2288254$, ravindra.kom@gmail.com.
- **Srinivas Kolla**, Professor, Department of Mechanical Engineering, R.V.R & J.C College of Engineering, $(+91)863-2354340$, dr.kollasrinivas@gmail.com.
- **Srinivasarao Gunji**, Professor, Department of Mechanical Engineering, R.V.R & J.C College of Engineering, $(+91)9949928949$, gsraorvr@gmail.com.