BANOTH VEERANNA

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ACADEMIC QUALIFICATION

YEAR	DEGREE	UNIVERSITY/BOARD	CGPA/ %
2016-Present	M.Tech. (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	7.56
2014	B.Tech. (Production and Industrial Engineering)	Indian Institute of Technology, Roorkee	5.14
2010	Class XII	Board of Intermediate Education, A.P	92.2
2008	Class X	Board of Secondary Education, A.P	91.66

ACADEMIC PROJECTS

Modeling of Compressive Strength of Concrete using Regression *Feb'17-Mar'17*

- The dataset contains 1030 instances and 9 variables.
- The potentially influential variables of Concrete Compressive Strength are 7 Ingredients (Cement, Blast Furnace slag, Fly ash, Water, Super plasticizer, Coarse aggregate, Fine Aggregate) and Age of the material.
- **Methodology:** multiple linear regression modelling and non-linear regression.
- The dataset was analysed to determine the various factors affecting compressive strength of cement and to formulate models depicting the effects of these factors.
- Log-log model was found out to be best fitted.

Modeling of Capital Productivity with respect to several independent factors *Mar'17-Apr'17*

- The dataset contains productivity data of 48 continental US states for 17 years 1970 to 1986.
- Methodology: Panel data regression modelling.
- Programming Language : R.
- The Panel Data Regression was applied to the dataset to determine the effects of the independent variables on the dependent variable, Gross State Product.
- Fixed Effect Model was found out to be the best fitted model.

House Prices: Advanced Regression Techniques *Jan'17-Aprl'17*

- Predicted the sales price of the houses in Ames, Lowa using advanced Regression techniques based on several attributes for which 79 explanatory variables describing (almost) every aspect of residential homes.
- The dataset contains 1460 observations in the training set and 1459 observations in the test set. There are 46 categorical variables including 23 nominal and 23 ordinal ones, and 33 numeric variables in the dataset.

Status Report For LOGON Project *Mar'17-Apr'17*

- The Logistical Online (LOGON) project is scheduled to be completed in 89 weeks
- After the project had been underway for 20 weeks, a status report of the project was prepared.
- The report included problems encountered in first twenty weeks, anticipated challenges, and recommended suggestions or changes to the plan.

Prediction of Fractures for Different Shapes of Al alloy- 6061 *Aug'13-Apr'14*

- Considered different shapes of Al alloy-6061 (Digital model built in ansys) and predicted the location of occurrence of fracture by analyzing Von Mises stress diagrams obtained in ansys upon application of loads (both static and dynamic) to these shapes.
- Also analyzed the dependence of location of fracture on the shape of the material.

INTERNSHIP/TRAINING

Sarda Group of Companies, Nashik. *May'17-Jul'17*

Title: Analysis of the Flow of Tendu leaf along the Beedi Supply Chain

Tendu leaf is one of the critical raw materials of beedi.

Objective:

- To optimize the supply chain beginning from procurement of Tendu leaves to supplying them for making beedis.
- To estimate a conversion factor i.e. on an average one Tendu leaf converts into how many beedis?
- To balance the material to calculate wastage along the supply chain.
- To estimate a conversion factor from weight to number of leaves.

Approach:

- Travelled with the Tendu leaves along the whole supply chain (from Forest to Beedi Making Households).
- Mapped the whole process in a scientific manner to look for points that can be optimized along the supply chain.
- Identified the information gaps, data collection problems, Problems of unit conversions (number to weight and weight to number), accuracy issues and the questions to be answered at every point of supply chain to balance the material and further to calculate the wastage.
- Suggested the data that needs to be collected to arrive at a stochastic model to estimate the above mentioned conversion factors.

Bharat Heavy Electricals Limited, Hyderabad *May'13-June'13*

Title: CNC Part programming of Cam Disc and Fixture Plate

- Studied the working of various CNC Machine Tools, Machining techniques, various cutting tools and gauges which are used to manufacture and inspect components.
- Learnt Auto CAD and CNC part programming, drafted Cam Disc and Fixture Plate profiles in Auto CAD relating them to Microsoft Excel worksheet and generated a CNC part program for vertical machining center.

COURSEWORK & SKILLS

Relevant Courses	Probability & Statistics | Operations Research for Management | Statistical Modelling for Business Analytics Introduction to Computing | Data Mining and Knowledge Discovery | Design of Production Systems | Operations Management |Software Project Management | Business Process Modelling | Business Process Patterns | Supply Chain Management | Quality Management | Production Planning and Control | Value Engineering |
Technical Skills	C | R | Python | ANSYS | Auto CAD | MS Office

POSITION OF RESPONSIBILITY

Seminar Coordinator, IME, IIT Kanpur *Aug'16-Present*

EXTRA CURRICULARS

NSS *2010- 2011*

- Being a member of "Rural Transformation cell- NSS, IIT Roorkee" actively took part in various development activities including teaching
- Took part in voluntary organization of various blood donation camps.

Himalayan Explorer's club *2010-2011*

- Active member in mountaineering and trekking camps.