Pranay Barua

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Academic Qualifications

YEAR	DEGREE	INSTITUTE	CGPA/%
2018(expected)	M.Tech. (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	8.9/10
2014	B.E. (Electrical Engineering)	SGSITS,Indore	81.30
2010	Class XII, CBSE Board	Rose Mary Convent School,Bhatinda	75.80
2008	Class X, CBSE Board	Kendriya Vidyalaya, Bhatinda	84.60

Professional Experience

Intern at CORECOMPETE PVT. LTD.　　　　　　　　　　　　　　　　　　　　　*May'17 –Jun'17*
- Designed a List Branch Dashboard using **SAS Visual Analytics**.
- Build a mechanism to provide information on key metrics of a list and the branches linked to the list.
- The information will be used for review of the branch performance metrics such as sales, stock levels and availability of the stock within a branch and come up with key decisions.
- A system of process with ability to crunch humongous data, compute easily understandable metrics and create a report which allows to review the key performance indicators in a systematic way.
- Got a *Pre-Placement Offer* for the position of *Associate Data-Scientist*.

Executive Trainee at SHAKTI PUMP (I) LIMITED, PITHAMPUR　　　　　　　　　　　*Jun'14-Sep'14*
- Worked in R&D division and proposed many modifications in designing of motor related to starting and heating of motors and also proposed to use BLDC motors in Solar Pump sets for higher efficiency and also Worked On testing of Induction Motors and Control panels.

Academic Projects

Predicting Full Load Electrical Power Output of a Base Load Power Plant　　　　　　*Feb'17-Mar'17*
- Formulated multiple linear regression models (**Linear-log, Log-linear and Log-Log**) and chose the best amongst them using adjusted R-Square.
- Tested **Multicollinearity** and **Heteroscedasticity** in the dataset.
- Identified the statistical and economic significance of different independent variables on the dependent variable.

Predicting Admission Probability of the Students in Graduate School　　　　　　　*Mar'17-Apr'17*
- Formulated **Logit and Probit Regression model**, and checked **AIC** values for measure of fitness.
- Performed **Wald test** to check significance of variables.
- One of the variable was ordinal thus, used factor of variable to avoid the binary omitted variable trap.

Conceptualization of a Big Data Application On Agriculture　　　　　　　　　　　*Jan'17 -Feb'17*
- Proposed an app to help farmers in all the stages of farming i.e. Pre-Season, At Planting, Growing Season, and Post Season.
- The App includes Crop recommendation, Rain Forecasting, Market Price forecasting. This app is intended to help farmers manage the entire farming cycle right from crop selection, seeding, manuring, harvesting and selling.

House Prices: Advanced Regression Technique 　　　　　　　　　　　　　　　　*Jan'17-Apr'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.

Conceptualization of an E-Commerce Project -Bhowbhow.Com (Your Pet, Our Care)　　*Mar'17-Apr'17*
- It's a B2C E-commerce start-up. It mainly deals with dog care i.e. providing all dog related problems at customer's doorstep.
- Proposed different Marketing Strategy for website promotion and to target new customers.
- Carried out SWOT analysis, to check feasibility of the project and proposed budget and ROI of the project.

Designed an Online Application Form for a Bank　　　　　　　　　　　　　　　*Jan'17-Apr'17*
- Aim was to create online account opening system which could replace offline account system.
- Designed a webpage using HTML5 and PHP. MySQL was used to create the customer database and for writing data to & reading data from the database tables. Database was created and stored at the IIT Kanpur server.

Coursework & Skills

Relevant Courses	Probability & Statistics	Operations Research for Management	Statistical Modelling for Business Analytics Introduction to Computing	Data Mining and Knowledge Discovery |Big Data for Management	Introduction to E-Commerce |Computer Aided Decision System |Business Process Modelling
Technical Skillsets	C	R	PySpark	HQL| SAS VA & Enterprise Guide |Microcontrollers	MATLAB (Simulink)| PCB Designing

Position of Responsibility

- **Part of Operation committee of TEQIP Short Term Course on BIG DATA:** Given a demonstration of IBM Bluemix and "R".
- **Internship Coordinator:** Worked as a Departmental Internship Coordinator for session 2016-17.
- **Volunteered** an event **Prastuti** (your case your solution) in Prabhandhan, IME, IIT Kanpur.
- **Chief Operational Officer, SGSITS Robotics Club, SGSITS, Indore:** Managed and organized all the SGSITS Club's events.
- **Committee Member**, **AAYAAM-2K13:** Organized the event "**Puzzulus Totalus**" in the techno-cultural fest held at SGSITS, Indore.

Awards & Achievement

Academic	• Academic Excellence Award by IIT Kanpur. • Secured All India Rank 656 in GATE-2016 (99.48 percentile).
Extra-Curricular	• Second prize winner in Image Processing Robot event held at NIT, Bhopal. • Runner up in Basketball in inter-branch competition at SGSITS Indore. • Secured third position in Master@lab in embedded system event at SGSITS, Indore. • Qualified for the Final Round in Image Processing Event held at IIT, Bombay. • Team Member of U-19 Cricket Team in Regional Sports Meet of Kendriya Vidyalaya. • Participated in Regional Level Science Exhibition.