AYUSH TIWARI

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ACADEMIC QUALIFICATION

Year	Qualification	Institute / Board	% / CGPA
2018	M. Tech (Industrial and Management Engineering)	Indian Institute of Technology, Kanpur	8.63*/10
2016	B. Tech (Mechanical Engineering)	Institute of Engineering and Technology, Lucknow	80.45 %
2011	Class XII, CBSE Board	Vishnu Bhagwan Public School, Allahabad	83.60 %
2009	Class X, CBSE Board	Maharishi Vidya Mandir, Fatehpur	93.80 %

INDUSTRIAL EXPERIENCE

- **Core Compete Private Limited, Hyderabad**   **May – Jul'17**

Project Objective	To do a in depth research on **TensorFlow** for **Machine Learning** and implement it to do **Text Prediction**
Applications	Word & character level text prediction using LSTM by applying TensorFlow libraries for supervised learning
Technology	Programing language used was Python on top of TensorFlow
Steps	• Understanding TensorFlow Architechture, Mechanics and launching Tensor Board • Applications, advantages and limitations of TensorFlow • Implementation of TensorFlow on CPU and GPU • Algorithm and Coding for Text Prediction
Delivery	Delivered a system of process with the ability to predict the next set of words for a given input of words

- **Bharat Heavy Electricals Limited, Haridwar**   **Jun'15**
  - Worked on Heavy Electrical Equipments Plant (HEEP) and Central Foundry Forge Plant (CFFP) workshops
  - Worked in Turbine Manufacturing Shop & learnt design and fabrication of large sized steam and gas turbine, turbo generators, heat exchangers, condensers and auxiliaries, balancing of rotor & other heat treatment operations

ACADEMIC PROJECTS

- **A study of Relationship between Sales and Corresponding Advertising Expenditures: Time Series Approach**
  - Worked on Time Series data of 36 months which contained seasonality, trend and irregular components
  - Applied Simple Exponential Smoothing (SES), Holt Winter's Exponential Smoothing and ARIMA Models for forecasting the sales & advertising expenditure
  - Compared the models using Correlogram, performing Ljung Box Test and Normality of residuals to draw the conclusions
- **Analysis of Factors Influencing Fatality Rate in US using OLS regression model**
  - Studied the impact of various factors like availability of doctors, hospitals, per capita income, etc. on the fatality rate
  - Compared 5 subsequent models in R using various statistical techniques and figured out the best fit model
- **Housing Price Estimation using Advanced Regression Techniques**
  - Used Box and Whiskers Plot for Data Cleaning and Preprocessing
  - Methods used were Random Forest to find out the importance of variables, linear regression to predict the decision
- **Marketing Research Survey and Analysis of Factors affecting sales of CCD, IIT Kanpur**
  - Found out the factors which influence sales of CCD and determining relative strengths and weaknesses of CCD vis-a-vis other major competitors in the campus
  - Formulated Descriptive Research Design and performed hypothesis testing on the model
- **Final year B.Tech project on 'Energy Audit of IET Hostels'**
  - Survey, analysis and energy audit of hostels of IET campus and recommended installation of solar panels for hostel mess and energy efficient devices for rooms and lobbies
  - Methodology Used: Analytical Hierarchy Process (AHP) was used to propose model and Measurement of consistency using PCJM (Pairwise Comparative Judgement Matrix)

POSITIONS OF RESPONSIBILITY

- Department Placement Coordinator, Students' Placement Office, IIT Kanpur
- Senior Executive Creative Cell, Inter IIT Sports Meet, IIT Kanpur
- DPGC Student Representative, IME, IIT Kanpur

- Internship Coordinator, IME, IIT Kanpur
- Executive MnP Team, Inter IIT Sports Meet
- Junior Executive Finance, Antaragni, IIT Kanpur
- Junior Executive E summit, E Cell, IIT Kanpur

COURSEWORK AND SKILLS

Relevant Courses	Probability and Statistics I Statistical Modelling for Business Analytics I Data Mining and Knowledge Discovery I Introduction to Computing I Operations Research for Management I Advanced Decision Models I Marketing Research I Design of Production System I Analytics in Transport and Telecom
Technical	Python| C | C++ | R | Auto CAD | Microsoft Office | Tableau | Machine Learning

AWARDS AND ACHIEVEMENTS

Academic	• Secured All India Rank 1445 in GATE-2016 amongst 0.19 million students (top 0.73%) • Among Top 5 students of the city in Class 10th Boards
Extra-Curricular	• 2nd Prize winner in Chess, Shauryotsava 2015, IET Lucknow • Served in NGOs - Make A Difference (MAD) and Slum Samvardhan • Participated in Run For Cause, Blood Donation and Van Mahotsav Event • Participated in workshop organized by Hero Motocorp Ltd. • Participated in workshop on Oil Conservation organized by PCRA • Participated in All India Essay Writing Competition and Mathematics Olympiad at School Level
Leadership	• Event Coordinator of Talent Hunt in Mech Fest '15 • Volunteered in Training and Placement Cell in IET Lucknow (2013-2015) • Volunteered as Inter College Student Representative in Cognizance - IIT Roorkee • Volunteered and Participated in Short Film Making and Industrial Design Problem in Alchemy '13