SUBODH JAIN | 16ME10062

MECHANICAL ENGG.(B.Tech 4Y)
MINOR in COMPUTER SCIENCE & ENGG. (B.Tech 4Y)

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	B.TECH	IIT Kharagpur	9.05 / 10
2016	AISSCE	St. Mary's School,CBSE	94.6%
2014	AISSE	St. Mary's School,CBSE	10 / 10

INTERNSHIPS AND PROJECTS

EXL Services(India) Private Limited | Gurugram   **[May'19-July'19]**
- **Risk Analytics**:Worked with **VISA Global Risk Analytics Team** to analyze transactional level data using hive queries on Apache Hadoop
- **Reports Automation**: Automated around 17 monthly reports using **Apache Oozie** (scheduler for Hadoop jobs) and made all the codes dynamic and tested for the month of June. Hence reducing the possibility of manual errors, saving around 100 hours of efforts per month
- **Machine Learning**: Clustered the US-based Issuer Banks based on riskiness, by preparing and analyzing numerous important features of the dataset and then applied various clustering models. This helped VISA identify the banks which behave similarly in terms of riskiness

Advantages of Genetic Algorithms over Conventional Algorithms | Prof. Nirupam Chakraborty   **[Jan'18-Apr'18]**
- Successfully obtained the code and ideology using different Genetic Algorithms for a random data generation, crossover, mutation, and evaluation for solving various puzzles and overcame the two main problems of slow convergence and inability to escape from local minima

JK Tyre Industries Limited | Banmore   **[May'18-Jun'18]**
- Worked on the project "Analysis of utility sector and its working" to improve the performance of various sectors for the production of tyre
- Identified the major flaws at various intermediate manufacturing steps of the production by analyzing the data of the defected tyres

COMPETITION/CONFERENCE

Data Analytics | Inter Hall | Telecommunication Industry - Network Congestion Identification   **[Mar'19]**
- Analyzed and predicted the type of network congestion for telecommunication industry and bagged Bronze in Interhall Data Analytics 2019
- Initialised with the comprehensive analysis of the given data which involved calculation of basic descriptive statistics for each feature
- Used various models backed by feature engineering and fine tuning for the results and got the best accuracy amongst all teams

Data Analytics | Open IIT | InsAnalytics, Healthcare Service - Inventory Management   **[Sep'18]**
- Used ARIMA model for the time series forecasting of demand for a particular type of medicine in the next four months and bagged **silver**
- Estimated Economic Order Quantity for inventory management, followed Failure Mode, Effective Analysis as a measure of risk mitigation

PROD-D | Prakriti-18 | Agricultural and Food Innovation Fest   **[Mar'18]**
- Designed a model for NIR based product 'FASAL', a device which segregates seeds according to their germination capability and also check availability of nutrients in soil using stored NPK data for particular crops which subsequently can increase farmer's production and income
- Bagged **silver** presenting the product FASAL as captain in PROD-D event of Prakriti-18, Agricultural and Food Innovation Fest, IIT Kharagpur

Case Study | Open IIT | The Endless Innovation and fourth Industrial Revolution   **[Sep'17]**
- Performed a detailed, comprehensive analysis on "Are we ready for the changes?", it's impact socially, economically and environmentally and the opportunities in disrupting yet sustainable solutions in the 4th Industrial Revolution in various Industries and bagged **Gold medal**

ZS Campus Beats Case Challenge   **[Apr'19]**
- Made into the **Top 50** teams out of 2,000 registered team from all over India conducted in all colleges by the ZS Associate Company
- Developed a strategy to facilitate the entry of the European Banking major into the thriving, yet overcrowded credit market in India
- Decided the order of products launch and segment to target as well as Rewards and Offers using given data and forecast of market growth

COURSEWORK INFORMATION

Probability and Statistics | Design and Analysis of Algorithms | Programming and Data Structures | Technology Entrepreneurship | Machine Learning | Data Analytics | Genetic Algorithms | Economics | Fluid Mechanics | Thermodynamics | Heat Transfer | Kinematics of Machines

AWARDS AND ACHIEVEMENTS

- Secured ALL INDIA RANK **1381,** among top 1 percentile in JEE Advanced 2016 among the 1.2 lakh shortlisted candidates
- Secured ALL INDIA RANK **2257**, among top 0.1 percentile in JEE MAIN 2016 among the 12 lakh candidates

POSITIONS OF RESPONSIBILITY

Captain | Chemquest | Azad Hall of Residence   **[Aug'18-Mar'19]**
- Led a team of 20 multi-faceted members from different Departments and conducted workshops to enhance technical capabilities
- Designed a model for pumping mechanism to pump di-ethylene glycol from Haldia dock to industry using pipelines and bagged silver

SKILLS AND EXPERTISE

- **Programming Language**: C, C++, python, hive, SQL
- **Software familiar with**:Tableau, MS Powerpoint, Engineering Equation Solver, Anaconda, Solidworks

EXTRA CURRICULAR ACTIVITIES

- Finalist in the '**Scale it**' competition organized in Global Entrepreneurship Summit, IIT Kharagpur, 2019 where problem statment was given by UBER India to build and scale an economically and environmentally sustainable solution for the last mile problem faced in metro cities
- Active member of **Bronze** winning Product Design team of Azad hall of residence which participated in Technology General Championship
- Headed the publicity team of annual treasure hunt event KHOJ'18 organized by Azad Hall which witnessed a footfall of over 950+ students
- Part of **Phonathon 3.0** : an initiative of Student Alumni Cell, IIT Kharagpur through which we aimed to get financial aid from the alumni for the development of the institute and allot alumni mentors to student mentees for Student Alumni Mentorship Programme

!self declaration by the student