



Abhijeet Soni

Gender: Male

Phone no. : 7307421706

M.Tech. (Mechanical Engineering)

Indian Institute of Technology, Bombay

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Examination	University	Institute	Year	CPI / %
Post-Graduation	IIT Bombay	IIT Bombay	2021	8.39
Graduation	L.P.U. Punjab	L.P.U. Punjab	2018	9.09
Graduation Specialization: Mechanical Engineering				
Intermediate	CBSE	Jawahar Navodaya Vidyalaya, Korba	2013	81.00%
Matriculation	CBSE	Jawahar Navodaya Vidyalaya, Jashpur	2011	8.60

TECHNICAL SKILLS

- **Programming** - C++, Python, SQL
- **Python Libraries:** Pandas, NumPy, Scikit-Learn, Matplotlib, TensorFlow, Keras
- **Additional skills/software:** Power BI, Excel, Qlikview

SCHOLASTIC ACHIEVEMENTS

- Secured **98.78 percentile** in GATE 2018 (Mechanical), among **1.94 lac candidates** in the first attempt. | Mar'18 |
- Secured **First Division with Distinction** in B. Tech (Mechanical) at LPU, Phagwara | Jun'18 |
- Awarded **AA** grade in Manufacturing Automation course for the performance in **Data Analytics for Predictive Maintenance** with **Johnson and Johnson Pvt. Ltd.** | Jun'20 |

INDUSTRY SPONSORED PROJECTS

Data Analytics for Johnson and Johnson Pvt. Ltd. (Mulund Plant)

Industrial Mentor: Manish Singh, J&J Pvt. Ltd. | Guide: Prof. K. P. Karunakaran

| Jan'20- May'20 |

Tools Used: Python, SQL, Power BI

- **Data preprocessing** was done on raw data. Provided raw data consisted of **11000+ failure instances** of last 1 year.
- Improved Overall Equipment Effectiveness dashboard.
- Developed a **Machine Learning model** to Predict Remaining Useful Life (RUL) of various equipment for 98% target reliability.

Unsupervised Machine Learning Model for Customer Segmentation to Assist Ad Targeting In Digital Marketing

Internship: BlueBanyan Technologies Pvt. Ltd.

| Dec'20- Mar'21 |

Tools Used: Python, Excel, Power BI

- Developed dashboard to visualize customer behaviour and characteristics from diverse aspects.
- Trained unsupervised ML model using **K-Means clustering** after preprocessing of data.

DATA SCIENCE PROJECTS

Data Compression and Visualization using Principle Component Analysis

| Aug'19-Nov'19 |

Course Project: Engineering Data Mining and Applications

Tools Used: Python, Excel

- Understanding the evaluation process by **data visualization plots and preprocessing**.
- Removing non-significant features and created new features through Principal component analysis.
- Used Elbow method and k-means algorithm to classify the data.

Tracing politico-economic trends by analyzing Indian budgets using Natural Language Processing | Feb'21-May'21 |

Course Project: AI, Data and Policy

Tools Used: Python, Excel

- Analyzing if **positive description** of something follow up with **actual increase** in financial allocation for that field.
- Tracing **correlation between electoral consideration and budget allocation**.
- Implementing named entity recognition, PoS tagging, and sentiment analysis (Lexicon based).
- Analyzing if some **particular issues** becomes governmental priority in **particular time period**.

M.Tech Project: Process Parameter Selection for Ultra-Precision Machining Processes with Deep Learning

Guide: Prof. Rakesh Mote, IIT Bombay

| July'20-July'21 |

Tools Used: Python, Excel

- Applied **Computer Graphics** concepts such as synthesis of planar and space curves, modelling of freeform surfaces for data generation.
- Implemented **Neural Network** Configurations for the recognition of geometric features and process parameter prediction.

KEY COURSES

- Engineering Data Mining and Applications
- Deep learning- Theory and Practice,
- Anomaly Detection in Time Series Data with Keras
- Database Management system
- Data, AI and Policy (Natural language Processing)

POSITION OF RESPONSIBILITIES

Teaching Assistant for ME 119: Engineering Graphics & Drawing | Prof. Sandip K. Saha | Jan'20 – May'20 |

- Mentored 120+ undergraduate students to help build their skills in Engineering Drawing by guiding them in using software like **AutoCAD and SolidWorks**.

Mood Indigo (MI) Media and Publicity Organizer, IIT Bombay | Nov'19-Dec'19 |

- Data-based and contacted **50+** Instagram, YouTube influencer, helped in organizing influencer meet.

Interview Coordinator, Placement cell, IIT Bombay | Nov'19-Dec'19 |

- Coordinated with a team of **250+** members for interviews of **1600+** students.
- Assisted in conducting Pre-placement talks and test **15+** firm.

EXTRA CURRICULAR ACTIVITIES

- Participated in **12 km Cyclothon** with the quote "Brake Pollution to Break Pollution ", IIT Bombay. | Oct'19 |
- **Career Counselling** Campaign & **climate change** | Organised by Abhyuday, IIT Bombay | Nov'19 |
- Successfully completed **10 km race** distance in the Daily World Marathon 2018. | Apr'18 |