



DHEERAJ KUMAR SENGAR

-- DATA Analyst

I'm pursuing B.tech from I.K. Gujral PTU Main Campus, Kapurthala in **Computer Science and Engineering**, and passionate to solve real-world business challenges using data analytics. Proficient in deploying complex machine learning and statistical modeling algorithms/techniques for identifying patterns and extracting valuable insights.

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TECHNICAL SKILLS

Languages & Frameworks: Python 3,C,C++,HTML,CSS,Bootstrap,PHP

Packages: Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, Tensorflow, Facebook Prophet, Pandas-bokeh

Statistics/ML: EDA(Exploring Data Analysis), Probability distribution, Linear Algebra, Linear/Logistic Regression, Clustering, PCA, Tree Classification, Random Forest, Decision Trees, Boosting. Bagging, SVM, Time Series Analysis and forecasting, Clustering algorithm.

Database: MySQL

Operating System: Linux(Ubuntu), Window 10

Integrated Development Environment: Jupyter Notebook, Spyder, Google Colab, Visual Studio Code.

DevOps Tool: Git, Jenkins, Docker, Kubernetes, Puppet.

Acquaintance: Natural Language Processing, Text Preprocessing, Data Structure, Big Data, DevOps.

KEY SKILLS

Data Analysis • Detail Oriented • Data Clean-ups • Predictive Modelling & Analytics • Data Visualization • NLP • Text Preprocessing

EXPERIENCE

Data Analytics Intern, DocAcademy | 1st Aug '20 - 10th Oct '20

I worked as a Data Analytics Intern in DocAcademy where my primary work includes to Manage their data and also do **Time Series Future Forecasting** and some analysis, created a **Sentimentally analysis model** for analyzing the customer review/behavior, developed a **Price Drop Alert model** using this model sending mail to customers automatically to know about the price of the available product.

I also worked on DevOps for a few days. so I have basic knowledge of DevOps's different Stages, tools, and methodology.

Big Data Analytics Training, National Institute of Electronics and Information Technology (NIELIT) | Jul '19 - Aug '19

6-week industrial training at NIELIT Lucknow on Big Data Analytics Programming and developed one project.

EDUCATION

B. Tech. – Computer Science & Engineering | IKGPTU Main Campus | Kapurthala, IN | Jun '17 – 21

PROJECTS & CASE STUDIES

Domain: Real Estate | *Tech Stack:* Python, Jupyter Notebook | Feb '20 – June '20

- **Objective:** To create a Time Series Forecasting model of an E-commerce company to predict the future price of the item.
- **Solution:** Designed a **Machine learning and Time-series Forecasting model** using the Facebook prophet
- **Key Achievement:** Developed a model to predict future prices.

Domain: Movie and series | *Tech Stack:* Python, Jupyter Notebook | April '20 – Present

- **Objective:** To build the **recommendation system model** for the movie, where Netflix is recommended the movies that they are most likely to watch.
- **Solution:** Designed a **recommendation system** for the movie watch
- **Key Achievement:** Created a user-based collaborative filtered model with a **root mean square error of 0.09**.

Domain: News | *Tech Stack:* Python, Jupyter Notebook | May '20 – July '20

- **Objective:** To create a model for Detecting Fake News.
- **Solution:** Designed an analysis model using **CountVectorizer, TfidfVectorizer, HashingVectorizer** model to predict whether the Fake News will happen or not.
- **Key Achievement:** Created a predictive model with **an accuracy of 81%**.

Domain: Real Estate | *Tech Stack:* Python, Jupyter Notebook | Sep '19

- **Objective:** To find significant variables in predicting the price of the house and how well those variables describe the prices of the house.
- **Solution:** Designed a **regression model** to understand the pricing dynamics of the market
- **Key Achievement:** Predicted variables that are impacting the price of the houses with an **accuracy of 83%**.

Domain: Ed-Tech | *Tech Stack:* Python, Jupyter Notebook | Aug '19

- **Objective:** To predict the leads that are most likely to convert into paying customers
- **Solution:** Designed a **logistic regression** model
- **Key Achievement:** Targeted the customers with a lead conversion rate of 80% with an **accuracy of 80%**.

CERTIFICATIONS

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- **Applied Data Science** | Coursera | Jun '20
 - **Time Series Analysis and forecasting using python** | Udemy | Jun '20
 - **Improve Business performance using google form** | Coursera | May '20
 - **Big Data and Data analytics training** | National Institute of Electronics and Information Technology (NIELIT) | Jun '19
 - **Scala and Spark for Big Data and Machine learning** | Udemy | Jun '20
 - **Google Analytics for beginner** | Google Analytics Academy | May '20

EXTRACURRICULAR ACTIVITIES AND VOLUNTEERING EXPERIENCE

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- Worked as Member for NSS at IKGPTU Main Campus.
 - Won Kabbadi competition in school.
 - Attend a 7-day NSS camp at IKGPTU Main Campus.
 - Participated in Rs. 100/-VENTURE during
 - E-cell Entrepreneurship program.