DHEERAJ KUMAR SENGAR

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Data Analytics Engineer

*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 modelling algorithms/techniques for identifying patterns and extracting valuable insights.*

TECHNICAL SKILLS

Languages & Frameworks: Python 3,C,C++,html,css,Bootstrap,php
Packages: Apache Spark, 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
Database: MySQL
Operating System: Linux(Ubuntu), Window 10
Integrated Development Environment: Jupyter Notebook, Spyder, Google Colab, Visual Studio Code
Domain Knowledge: Financial, E-commerce
Acquaintance: Natural Language Processing, Data Structure,Big Data, Apache Spark

KEY SKILLS

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

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

KEY DATA SCIENCE PROJECTS & CASE STUDIES

Domain: Real Estate | *Tech Stack*: Python, Jupyter Notebook | Feb '20 – Present
- *Objective*: To create a model that uses data from first E-commerce company to predict the future price
- *Solution*: Designed a **Machine learning and Time series Forecasting model** using facebook prophet
- *Key Achievement:* Developed a model with an accuracy of 78%

Domain: Movie and series | *Tech Stack*: Python, Jupyter Notebook | Feb '20 – Present
- *Objective*: To build the **recommendation system** for the movie, where the netflix is recommended the movies that they are most likely to watch
- *Solution*: Designed **recommendation system** for the movie watch
- *Key Achievement:* Created user based collaborative filtered model with **root mean square error of** 0.09

Domain: News | *Tech Stack*: Python, Jupyter Notebook | May '20 – Present
- *Objective*: To create a model to Classifies the Fake News
- *Solution*: Created **CountVectorizer, TfidfVectorizer,HashingVectorizer model** to predict the Face News 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 **regression model** to understand the pricing dynamics of the market
- *Key Achievement:* Predicted variables which 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 **logistic regression** model
- *Key Achievement:* Targeted the customers with lead conversion rate of 80% with an **accuracy of 80%**

Domain: Banking and Finance | *Tech Stack*: Python, Jupyter Notebook | Jun '19
- *Objective*: To identify patterns which indicate if a Bank Manager has difficulty paying a loan which may be used to take actions such as denying the loan, reducing the amount of loan, etc.
- *Solution*: Done **exploratory data analysis** to find the driver variables behind the loan default

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