

# KULVINDER SINGH

## Data Scientist

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## EXPERIENCE

### Data Analyst/ Backend Developer

#### Moglix Pvt. Ltd.

📅 July 2019 – Till Date

- Designed backend for self serve data extraction system for interactively accessing data related to different KPIs online, creating ease for business for taking decisions based on data rapidly.
- Developed backend for a platform where business can access daily updated frequently used reports.

## PROJECTS

### Kaggle's House Prices: Advanced Regression Techniques

**sklearn, python, xgboost, lighgbm, random forest**

📅 July 2019 – Present

- Regression problem: Predict Housing Prices given features about the house.

### CARWIN - An Intelligent Car Parking Solution with Image Analysis (Academic Project)

**python, opencv, deep learning**

📅 August 2018 – December 2018

- To automate overall parking process by saving car's number (with deep learning based number plate recognition api) with respective parking place user selects
- To monitor all parking places in realtime.
- With an access control system, authority who owns the password to get additional functionalities like database of cars parked.
- With additional feature of finding user's car parking number by searching database with user's car number, in case user forgets parking space number

### Realtime Twitter Analysis

**apache flume, apache hive, apache hadoop, apache spark, python**

📅 September 2018 – October 2018

- Used Apache Flume to stream data from twitter in real time.
- Preprocess collected data using Apache hive for doing analysis.
- Using Hadoop and Spark to apply machine learning algorithms for sentiment analysis

### Diabetes Melitus prediction with Pima Indians Dataset

**python, ensemble, xgboost, random forest, feature engineering**

📅 December 2018 – June 2019

- Used genetic algorithm and Recursive Feature Elimination
- Ensemble model performed with >78% accuracy on 10-fold Cross Validation

## EDUCATION

### B.Tech in Computer Science Engineering

#### Lovely Professional University

📅 July 2015 – July 2019 CGPA : 7.48

### Senior Secondary Certification

#### Springdale College

📅 June 2014 Per : 79.60%

### Secondary Certification

#### Springdale College

📅 June 2012 CGPA: 8.4

## SKILLS

Python Machine Learning  
Data Science Statistics  
Linear Algebra Deep Learning  
sklearn Pandas Git Numpy  
Algorithms SQL Apache Spark

## ACHIEVEMENTS

- Among top 5 % of Advanced Regression with House Prices Kaggle Competition
- My paper titled "Analysis of Various Computer Architectures" published in Vol.-8 Issue-8S2, June 2019 of International Journal of Innovative Technology and Exploring Engineering(TM).
- Chapter on "Identifying Diseases and Diagnosis using Machine Learning" selected for MLHCP-2019, proceedings to be published by Springer.

## CERTIFICATION

- Machine Learning by Andrew Ng - Coursera
- Neural Networks and Deep Learning by Andrew Ng - Coursera
- Machine Learning Fundamentals - Datacamp
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by Andrew Ng- Coursera
- Convolutional Neural Networks by Andrew Ng – Coursera