Gaurav Jain

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EDUCATION

M. Tech — Artificial Intelligence
National Institute of Technology

Sept. 2020 – Ongoing   Bhopal (462003)

B. Tech — Mechanical Engg.
University Institute of Engg. and Technology

Aug 2014 – May 2018   Kurukshetra (136119)

SKILLS

• Python • SQL • MS Excel • Selenium • Flask • HTML

• Machine Learning • Deep Learning • Exploratory Data Analysis • Web scrapping • Scikit-Learn • TensorFlow • Keras

• Mathematics • Statistics • Critical Thinking • Quick Grasping.

CERTIFICATIONS

Data Scientist with Python
Issued by: **Datacamp**   Certificate

Machine Learning Scientist
Issued by: **Datacamp**   Certificate

SQL Server for Database Administrators
Issued by: **Datacamp**   Certificate

Data Science Math Skills
Issued by: **Coursera**   Certificate

Honors & Awards

GATE – 96+ Percentile

NKRC - Finalist. National level Go-Kart Racing championship.

Well done card for WEP at Bosch.

EXPERIENCE

BOSCH LIMITED   Jaipur
Graduate Apprentice   Oct. 2018 – Oct. 2019

Project:

WEP - Prevention of Coolant Leakage

Successfully Eliminated the Waste of Waiting and Processing in the Production line by Re-Designing the Coolant Return Tank of a Machine and saved Rs 100k.

PROJECTS

Portrait Me: Image Segmentation: Live Demo

- A Deep learning based **web API** to remove the background in the real time video and from the image too.
- Model was trained using Convolution Neural Network, Application developed using **Flask** framework and deployed on Heroku platform.
- Modify the **U-NET** architecture to achieve the accuracy of **94%** and Mean-IOU of **0.43**

Human Activity Recognition: Source Code

- Built a Deep Learning classifier to classify between various physical activities performed by person in day-to-day life.
- Perform **EDA** to find patterns and gain insights for the preparation of dataset for **time series** analysis from the raw sensors data.
- Combination of **CNN** and **LSTM** gave astonishing **precision** and **recall** of around **99%** on both training and validation data.

House Rent Prediction: Source Code

- Train Machine Learning Regression model to predict house rent, helping buyers to make an informed decision.
- Built an end-to-end **feature engineering** and model selection pipeline. Hand engineered some relevant features.
- Optimized Linear, Decision Tree and Random Forest Regressors using **GridsearchCV** to reach the best model. Linear Regression with RMSE of **.19** turns out the best.

Marketing Strategy using Decision Trees: Source Code

- Using data analysis and Machine learning, prepared a marketing strategy for the banks to make quick decision, help to **increase revenue.**
- Built an end-to-end feature transformation and model training pipeline to classify between classes.
- Plot the decision tree model to get the **if else conditions** that will help make predictive guess.

Working on – Automatic News Tagging