

# Vipin Kumar

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## Education

### Guru Gobind Singh Indraprastha University

BTECH IN CHEMICAL ENGINEERING

GPA: 80%

Delhi, India

Aug 2011 – June 2015

### Self-learning

COMPUTER SCIENCE, MACHINE LEARNING

Online

2016 – Present

## Experience

### Indian Oil Corporation Limited

SUMMER TRAINEE

Panipat Area, India

Jul 2014 – Aug 2014

## Skills

**Machine Learning:** Deep Learning, CNN, RNN, Feature Engineering, Probability, Statistics, Data Mining and Cleaning

**Languages:** Python, Matlab/Octave, Java, C, JavaScript, PHP, SQL, Standard ML, Racket

**Tools:** Scikit-Learn, Keras, TensorFlow, pandas, NumPy, OpenCV, XGBoost, Linux

**Computer Science:** Programming language theory, Functional Programming, OOP, Systematic Program Design

## Projects

### Self-Driving: Lane Detection

PROGRAM TO DETECT LANES IN A VIDEO OF A ROAD

OpenCV, Numpy, Python

### Predict Future Sales

PREDICT TOTAL SALES FOR EVERY PRODUCT AND STORE IN THE NEXT MONTH FROM A TIME-SERIES DATASET OF DAILY SALES DATA

Python, Time-series,  
Target-encoding, Feature  
Engineering

### Neural Style Transfer

IMPLEMENTATION OF A NEURAL NETWORK TO PERFORM STYLE TRANSFER, USING TRANSFER LEARNING OF A VGG19 IMAGENET MODEL

Transfer-learning, Tensorflow

### Web scraping price

A WEB SCRAPING PROGRAM TO SCRAP LAPTOP PRICES AND THEIR SPECIFICATIONS

Web-scraping, BeautifulSoup,  
Data-mining, Regular-expression

### Webliza

IMPLEMENTATION OF ELIZA-CHATBOT IN PYTHON, WITH USER-INTERFACE TO CHAT WITH THE BOT.

Javascript, Python, CSS, Html,  
Bootstrap

### Operating System

A SIMPLE OPERATING SYSTEM TO SUPPORT A 16-BIT COMPUTER IN A MADE-UP LANGUAGE

Memory, Output, Array, Screen ...

## Awards

Aug 2014 **IICHE Golden Jubilee Scholarship 2014-2015,**

Indian Institute of  
Chemical Engineers  
International  
Society for Krishna  
Consciousness

Dec 2011 **1st prize in Personality Development through Self-Awareness,**