

# Vipin Kumar

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## Education

### Guru Gobind Singh Indraprastha University

BTECH IN CHEMICAL ENGINEERING

First Division with Distinction, GPA: 80%

Delhi, India

Aug 2011 – June 2015

### Self-learning

COMPUTER SCIENCE, MACHINE LEARNING

Online

## Skills

Machine Learning, Deep Learning, Feature Engineering, Model Deployment, Data Mining, Data Cleaning, Version Control, Python, Scikit-Learn, Keras, TensorFlow, Pandas, NumPy, CNN, RNN, SQL, Probability, Statistics, Linux, Computer Vision, Heroku, AWS, Matlab/Octave, Java, C, JavaScript, Apache Spark, OpenCV, XGBoost, Flask, Programming Language Theory, Object Oriented Programming, Systematic Program Design

## Projects

### Research: Automatic Features

EXPLORING AUTOMATION OF FEATURE ENGINEERING USING NEURAL NETWORKS AND INVESTIGATING THE EFFECTS OF USING HIDDEN LAYER ACTIVATIONS AS INPUT FEATURES

Neural Network, XGBoost, Keras,  
Numpy, Feature Engineering

### Self-Driving: Lane Detection

PROGRAM TO DETECT LANES IN A VIDEO OF A ROAD

OpenCV, Numpy, Python

### Deployed Model to Predict Future Sales

DEPLOYED MODEL TO PREDICT TOTAL SALES FOR EVERY PRODUCT AND SHOP FOR THE NEXT MONTH, FROM A TIME-SERIES DATASET CONSISTING OF DAILY SALES DATA

Python, Time-series,  
Target-encoding, Feature  
Engineering, Incremental Learning,  
Model Deployment

### AI-Copter

AI THAT LEARNS TO PLAY THE RECONSTRUCTION OF THE CLASSIC COPTER GAME

Python, NEAT, Game Development,  
NeuroEvolution

### 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

## Awards

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

Indian Institute of  
Chemical Engineers

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

International  
Society for Krishna  
Consciousness