

# 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

AWS (EC2, S3, IAM, RDS, DynamoDB, Route53, Elastic Beanstalk, CloudWatch, Lambda, Load Balancer,) Gitlab, Docker, Git, Continuous Integration, Jenkins, Terraform, Postman, System Design, Deployment, Operations, Cpanel, Plesk, PHP, CodeIgniter, Laravel, MySQL, API, DNS management, SMTP, WordPress, Live Streaming integration, 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

## Pearsystem

### April 2022 - Present

- MANAGE MULTIPLE DEDICATED SERVERS, AWS ACCOUNTS, ALIBABA CLOUD ACCOUNT, SHARED SERVERS AND PLESK SERVERS
- SOLVING AND HANDLING EVERY RESEARCH AND DEVELOPMENT WORK ON NEW TECHNOLOGIES, FRAMEWORKS, SERVICES ETC. OR ANY UNCONVENTIONAL ERROR/PROBLEM
- DEPLOYING MULTIPLE APPLICATIONS ON VARIETY OF SERVER TYPES
- DATA CLEANING, MINING AND ANALYTICS FOR AN ECOMMERCE APPLICATION
- SYSTEM DESIGN, INTEGRATION AND IMPLEMENTATION OF A LIVE STREAMING AND CHAT APPLICATION
- TESTING MULTI PLATFORM APPLICATIONS
- API IMPLEMENTATION AND TESTING
- CREATING A GITLAB SELF HOSTED LOCAL DESKTOP SERVER AND SERVE IT OVER THE INTERNET USING NETWORK TUNNELING. SAVING COMPANY LOTS OF TIME BY BETTER SOURCE CODE MANAGEMENT AND AUTOMATE TASKS

## 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

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

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

## AI-Copter

*Python, NEAT, Game Development,  
NeuroEvolution*

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

## Web scraping price

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

A WEB SCRAPING PROGRAM TO SCRAP LAPTOP PRICES AND THEIR SPECIFICATIONS

## Awards

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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*