# Pankaj Kumar

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## EDUCATION

### IIT KANPUR

Major in, Mathematics & Statistics
Minor in, Computer Science
2015 - 2020 | Kanpur, India
CPI - 9.3/10

## LINKS

Github:// **pkjkumar66**
LinkedIn:// **pkjkumar66**
Website:// **pkjkumar66**

## COURSEWORK

### COMPUTER SCIENCE

Data Mining
Machine Learning
Fundamentals of computing
Principles Of Database Systems
Data Structures and Algorithms

### MATHEMATICS

Non-Linear Regression
Bayesian Analysis
Applied Stochastic Processes
Probability and Statistics
Linear Algebra
Ordinary Differential Equations
Partial Differential Equations

## SKILLS

### PROGRAMMING

- Java
- C/C++
- Python

### FRAMEWORKS

- Spring Boot • Drop Wizard

### DATABASES

- MySQL • MongoDB
- InfluxDB • Redis

### MESSAGE QUEUES

- Kafka • SQS • Rabbit MQ

### DEVOPS

- Docker
- Kubernetes
- AWS

### OTHER SKILLS

- System Design
- Git
- GitHub Actions

## EXPERIENCE

### CLEARTAX | Software Engineer | Bangalore, India

Aug 2020 - Present | GST Team

- Led the design and development of multiple enterprise-level micro-service applications, driving **1 M** dollar of revenue every year
- Designed and implemented scalable APIs and background workers for managing first- and third-party proprietary licenses using java, sqs, jenkins and other cloud technologies that serve thousands of license requests daily.
- Maintained monolithic legacy code, optimized various db queries to reduce api latencies, migrated monolithic system to micro-services, involved in on-call
- **Designed, Planned & Developed** GSTR forms from scratch to production, which is the most important part in GST product as a part of forms rewrite.
- **Tech Used**: JAVA | DropWizard, SpringBoot | Kafka, SQS | Jenkins, Docker, kubernetes | MySQL, MongoDB, InfluxDB, Redis | Grafana, GitHub Actions

## PROJECTS

### TAXI FARE PREDICTION | Course Project, Prof. Faiz Ahmed

May 2019 – July 2019 | IIT Kanpur, India

- Designed model which predicts fare on various factors, with optimal accuracy
- Performed EDA, Employed Linear regression, Lasso, Random Forest and Artificial Neural Network models on the pre-processed data
- Model predicted fare with error $\pm 5\%$ compared to actual fare predictor device

### FAKE NEWS DETECTION | Prof. Arnab Bhattacharya

Jan 2019 – May 2019 | IIT Kanpur, India

- Designed model to classify articles as real or fake and act as a filter for articles
- Performed pre-processing, tokenization, word stemming to convert text documents into features vector using NLTK
- Used feature set as a body text, title, body + title, and applied Logit, Naïve Bayes, ANN, and Support vector machine for classification
- Compared results obtained from different classification technique, out of which SVM gave an average accuracy of 93%

## POSITION OF RESPONSIBILITY

### INSTITUTE SPORTS EVENTS | Manager, UDGHOSH

Feb 2017 – Oct 2017 | IIT Kanpur, India

- Led a 2-tier team of 50+ members in coordination with officials and referees
- Launched a sports website to maintain database of referee and player profiles including Rules, Schedule and Results

## ACHIEVEMENTS

- Received **Spot Award** for delivering licensing service project.
- Received **A*** grade for exceptional performance in various courses.

## VOLUNTEER EXPERIENCE

### TEACHING ASSISTANT

Principles Of Numerical Computations | Jan 2020 - Apr 2020
Helped students by clearing their doubts. Designed and Reviewed the programming assignments for the course consisting of 100+ students.